



PARTS CATALOG

P R E F A C E

1. This parts catalog for 8SY-STP is published as a revised edition of the Diesel engine.

	Parts catalog No.	Date of issue	Remarks
First edition	0CR10-G57800	June,2004	No need
1st revised edition	0CR10-G57801	January,2010	

2.This parts catalog dose not contain the technical data needed for maintenance service.

3.The illustrations used in this parts catalog have been simplified for clarity.

4. The contents of this parts catalog are subject to change without notice.

5.Be sure to use only Yanmar genuine parts for repairs. If imitation parts are used,
it may cause engine defects.

Directions for the Parts Catalog.

1. The parts stipulated in this Parts Catalog are not necessarily standard equipped parts.
2. Parts may change without prior notice.
3. The following is an example of the Parts Catalog format.

OCF10-G21601		29. FUEL INJECTION PUMP(W/BOOST)									
REF.	LEV.	PARTS NO.	DESCRIPTION	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	729595-51390	FUEL INJECTION PUMP	1	1	1	1	1			1
1-1	1	729595-51391	FUEL INJECTION PUMP	1	1	1	1	1		N	1
		(A=E00185) (B=E00200)									
3	2	26022-060162	SCREW M 6X 16	9	9	9	9	9			
3-1	2	26022-060162	SCREW M 6X 16	4	4	4	4	4		K	
		(A=E00156) (B=E00156) (C=E00156) (D=E00156) (E=E00156)									
4	2	129470-51040	CAMSHAFT	1	1	1	1	1			
5	2	122710-51050	BEARING, ROLLER	2	2	2	2	2			
6	2	129470-51060	RETAINER	1	1	1	1	1			

Remarks

(1) BOOST COMPENSATOR TYPE. OPTIONAL PART, TO E00155, (4JH-DT, 4JH-DTZ)

① Ref. No.

The Ref. No. listed may not be in accordance with the illustration Ref. No.

(Ex.) Illustration No.

List Ref No.

1

1

(Before change)

1-1

(After change)

For interchangeable symbols N, R and K, illustrations for new parts may be abbreviated.

② Lev. (Level)

Level indication

The numbers below indicate the level of relativity towards the main part.

1 ---- Main parts (Assembly parts)

2 ---- Sub component included in " 1 ".

3 ---- Sub component included in " 2 ".

Note) Parts that are not for sale are partially illustrated but not listed.

③ Interchangeability Mark

When a part change takes place, one of the following interchangeability symbols is indicated beside the part.

Symbol	Interchangeability	Contents note
N	Old $\xrightarrow{\text{Yes}}$ New No	New Part is interchangeable for Old Part but Old Part is not interchangeable for New Part.
Q	Old $\xrightarrow{\text{No}}$ New Yes	New Part is not interchangeable for Old Part but Old Part is interchangeable for New Part.
R	Old $\xrightarrow{\text{Yes}}$ New Yes	New/ Old Parts are both interchangeable.
S	Old $\xrightarrow{\text{No}}$ New No	New/ Old Parts are both not interchangeable.
W		Part newly added.
Z		Part discontinued.
F		Not interchangeable by a single part but interchangeable together with related parts.
K		Changes only for used parts quantities.

④ Effective Machine No.

When a part changes, the effective Machine No. will be indicated in the (A)-(F) column.

Product Symbol	Product No.	Product Symbol	Product No.
C	Clutch No. Compressor No.	F	Machine No. (Agricultural Equip.)
D	Drive No.	M	Machine No.
E	Engine No.		

Note 1) A date may follow the symbol. (Ex.) 1996.01

Note 2) "XXXXX" and "ZZZZZ" are for parts that could not be predicted or for engine models that could not be identified.

Note 3) (A=E00185) is the E (Engine Serial Number) for the column (A) model (in this case 4JH-DT) after the parts design change.

⑤ Remarks Mark

Figures or alphabets (symbols) are entered in the remarks column.

The comments (remarks) on parts that are indicated at the bottom of the illustration are the same symbols as those stated above.

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MODEL : 8SY-STP
PC NO : 0CR10-G57801

Fig.No. GROUP NAME

8SY-STP

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2. ROCKER COVER
3. WATER DRAINING(E6500001-6510539)
4. WATER DRAINING(E6510540-6510554)
5. WATER DRAINING(E6510555-6513510)
6. WATER DRAINING(E1039758-)
7. CYLINDER BLOCK(E6500001-6510539)
8. CYLINDER BLOCK(E6510540-6510554)
9. CYLINDER BLOCK(E6510555-6512531)
10. CYLINDER BLOCK(E6512532-6513510)
11. CYLINDER BLOCK(E1039758-)
12. COVER
13. SHIM
14. CASING
15. TIMING GEAR CASING
16. FLYWHEEL HOUSING(E6500001-6513510)
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18. FLYWHEEL HOUSING(E1060949-)
19. CRANKCASE VENTILATION(E6500001-6513510)
20. CRANKCASE VENTILATION(E1039758-1060948)
21. CRANKCASE VENTILATION(E1045448-)
22. OIL SUMP
23. PISTON(E6500001-6511564)
24. PISTON(E6511565-6513510)
25. PISTON(E1039758-1045832)
26. PISTON(E1045833-)
27. CRANK MECHANISM
28. TIMING GEAR
29. OIL PUMP

Fig.No. GROUP NAME

30. OIL COOLER
31. OIL COOLER
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33. LUBRICATION, TURBINE(E6500001-)
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35. SEA WATER PUMP
36. SEA WATER PUMP, MOUNTING
37. OIL DIPSTICK, RH
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45. ENGINE SUSPENSION
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47. POWER TAKE-OFF
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59. LABELS, DECALS

CONTENTS

MODEL : 8SY-STP
PC NO : 0CR10-G57801

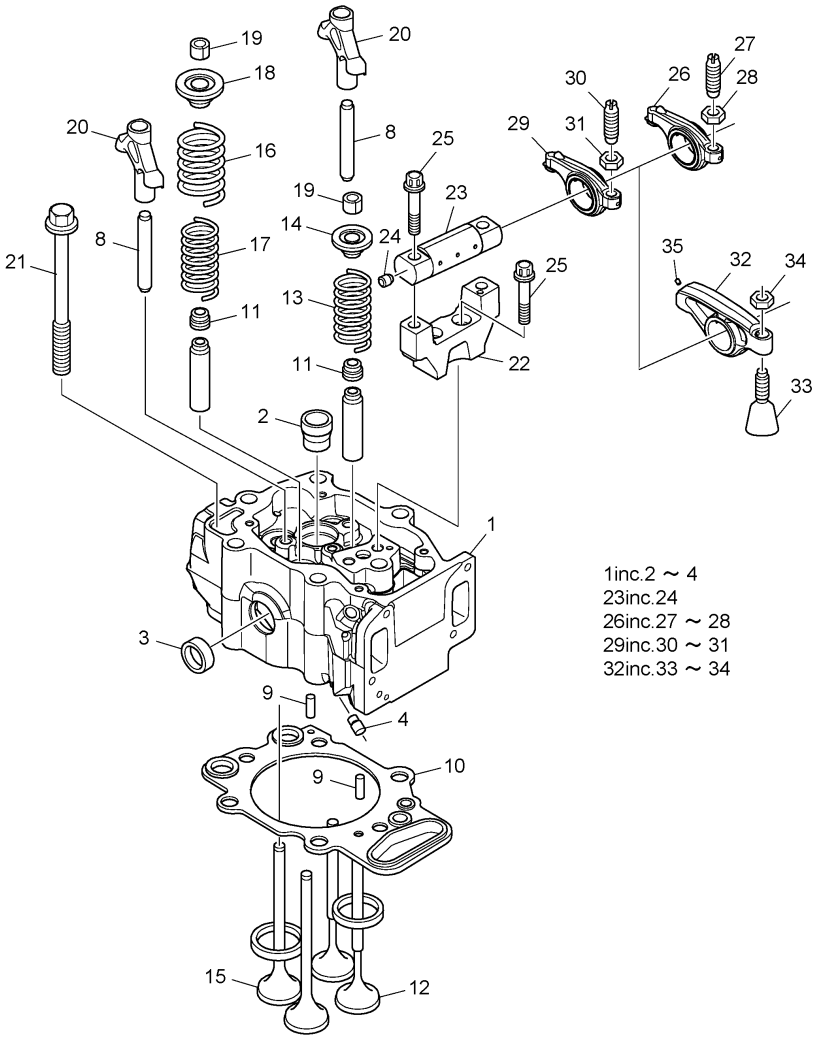
Fig.No. GROUP NAME

- 60. ANODE
- 61. ANODE
- 62. HEAT EXCHANGER
- 63. HEAT EXCHANGER, MOUNTING(E6500001-6513510)
- 64. HEAT EXCHANGER, MOUNTING(E1039758-1044970)
- 65. CHARGE AIR COOLER
- 66. BELT TRANSMISSION, ENGINE WIT
- 67. BELT TRANSMISSION, ENGINE WIT
- 68. THERMOSTAT HOUSING
- 69. COOLANT PUMP
- 70. COOLANT PUMP, MOUNTING
- 71. BILGE PUMP, MOUNTING
- 72. COOLANT PIPE, ENGINE
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- 78. BLEED PIPE(E1039758-)
- 79. AUXILIARY HEATER, ENGINE, IMME
- 80. AUXILIARY HEATER, ENGINE, EXTE
- 81. AUXILIARY HEATER, ENGINE, EXTE
- 82. AUXILIARY HEATER, ENGINE, EXTE
- 83. UNIT INJECTOR
- 84. FUEL FILTER
- 85. UNIT INJECTOR
- 86. FUEL FILTER
- 87. FUEL FILTER, PREFILTER
- 88. FUEL FILTER, WATER SEPARATOR
- 89. FUEL MANIFOLD

Fig.No. GROUP NAME

- 90. FUEL MANIFOLD
- 91. HYDRAULIC PUMP, 16L (OPTION)
- 92. HYDRAULIC PUMP, 22L (OPTION)
- 93. ALTERNATOR
- 94. ALTERNATOR, MOUNTING
- 95. STARTER MOTOR, FITTING PARTS
- 96. STARTER MOTOR
- 97. STARTER RELAY
- 98. ELECTRONIC CONTROL UNIT
- 99. CABLE HARNESS(E1039758-)
- 100. CABLE HARNESS(E6513143-6513510)
- 101. CABLE HARNESS(E1039758-)
- 102. ELECTRICAL EQUIPMENT
- 103. CONTACT HOUSING
- 104. CONTACT HOUSING KIT
- 105. GASKET KIT
- 106. O-RING KIT, STATOR
- 107. REPAIR KIT, HYDRAULIC PUMP
- 108. CABLE RETAINER

Fig.1. CYLINDER HEAD

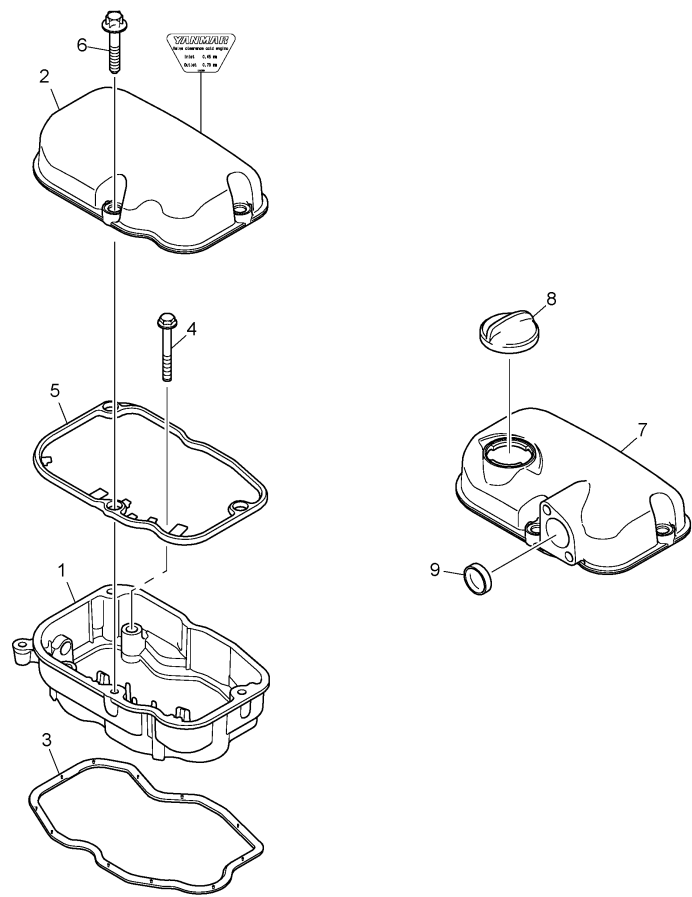


136591

OCR10-G57801 1. CYLINDER HEAD

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-27740	HEAD ASSY, CYLINDER	8							
2	2	165000-28230	SLEEVE	8							
3	2	165000-30890	PLUG, CORE 36MM	8							
4	2	165000-30830	PLUG, RIVET	24							
8	1	165000-30490	PIN	16							
8-1	1	165001-30770	PIN	16							N
(A=E*****)											
9	1	165000-30520	PIN, 8X20	16							
10	1	165000-25510	GASKET,CYLINDER HEAD	8							
11	1	165000-27760	SEAL	32							
12	1	165000-30290	VALVE	16							
12-1	1	165001-04890	VALVE, INTAKE	16							N
(A=E*****)											
13	1	165000-30320	SPRING	16							
13-1	1	165000-53110	SPRING, VALVE	16							N
(A=E*****)											
14	1	165000-25920	COLLAR, SPRING INT	16							
15	1	165000-30310	VALVE	16							
15-1	1	165001-26230	VALVE, EXHAUST	16							N
(A=E*****)											
16	1	165000-30340	SPRING	16							
16-1	1	165000-53120	SPRING, VALVE	16							N
(A=E*****)											
17	1	165000-30330	SPRING	16							
17-1	1	165000-53130	SPRING, VALVE	16							N
(A=E*****)											
18	1	165000-25930	COLLAR, SPRING EXH	16							
19	1	165000-28570	COLLET	64							
20	1	165000-48830	BRIDGE, VALVE	16							
20-1	1	165001-30780	BRIDGE, VALVE	16							N
(A=E*****)											
21	1	165000-26670	SCREW	48							
21-1	1	165001-30790	SCREW	48							N
(A=E*****)											
22	1	165000-31200	BRACKET, BEARING	8							
23	1	165000-27720	SHAFT	8							
24	2	165000-30830	PLUG, RIVET	8							
25	1	165000-26850	SCREW, TIGHT-FIT	16							
26	1	165000-32780	ARM, ROCKER INTAKE	8							
27	2	165000-27500	SCREW, ADJUSTING M10	8							
28	2	165000-28880	NUT, HEXAGON M10	8							
29	1	165000-32790	ARM, ROCKER EXHAUST	8							
30	2	165000-27500	SCREW, ADJUSTING M10	8							
31	2	165000-28880	NUT, HEXAGON M10	8							
32	1	165000-48780	ARM, ROCKER INJECTOR	8							
33	2	165000-49410	SCREW, ADJUSTING	8							
33-1	2	165001-30800	SCREW, ADJUSTING	8							N
(A=E*****)											
34	2	165000-28940	NUT, HEXAGON M12	8							

Fig.2. ROCKER COVER



136545

OCR10-G57801 2. ROCKER COVER

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-51040	COVER, ROCKER	8							
2	1	165000-51050	COVER, ROCKER	7							
3	1	165000-50560	GASKET	8							
4	1	165000-27410	SCREW, M8X50	32							
5	1	165000-50570	GASKET	8							
6	1	165000-27510	SCREW, FLANGE	24							
7	1	165000-51060	COVER, ROCKER	1							
7A	1	165001-31470	COVER,ROCKER	1							1
8	1	165000-26120	CAP, FILLER	1							
9	1	165000-30880	PLUG, CORE 25MM	1							

Remarks
(1)OPTION

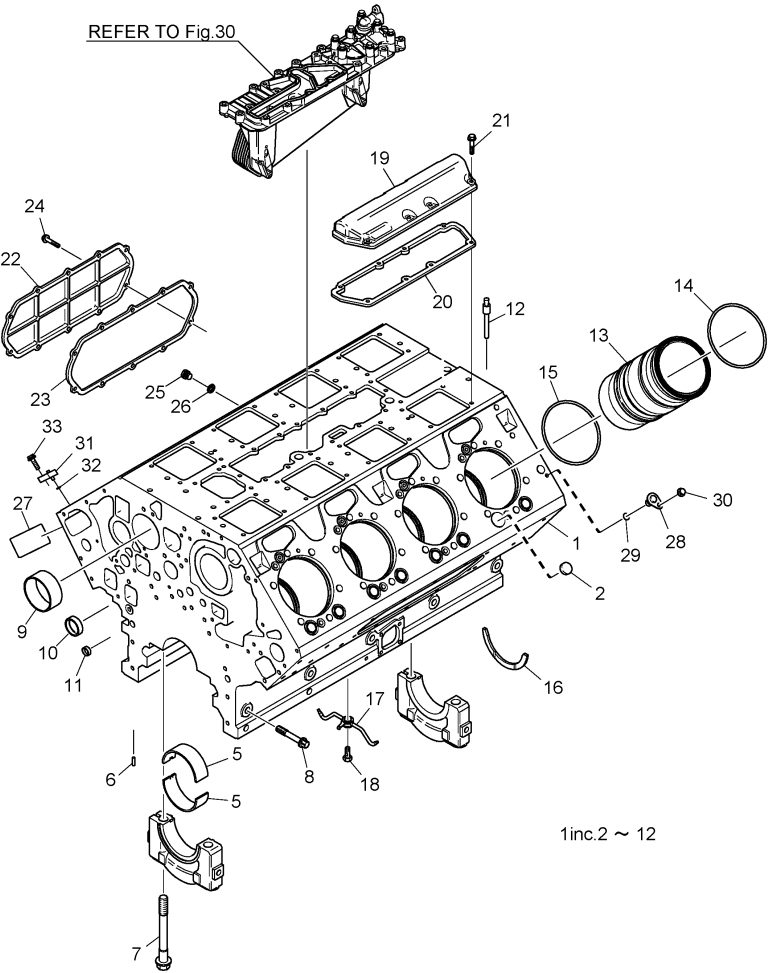
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Fig.7. CYLINDER BLOCK(E6500001-6510539)



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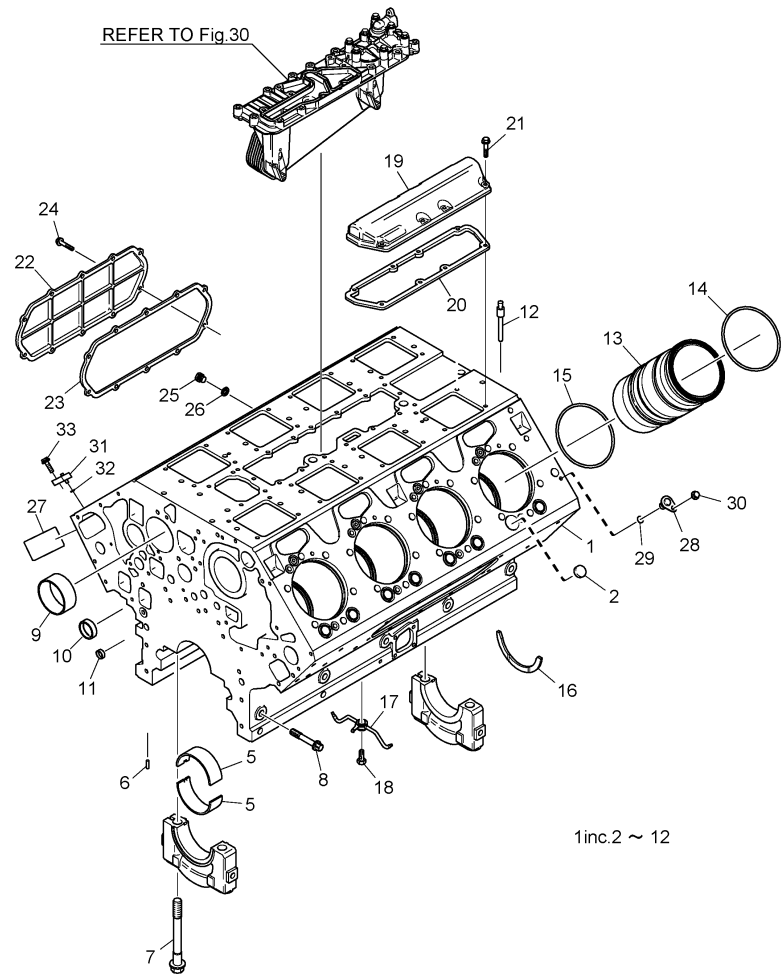
Remarks

(1)UNDER SIZE METAL

(2)OVER SIZE METAL

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-31540	BLOCK ASSY, CYLINDER	1							
2	2	165000-30870	PLUG	8							
2-1	2	165000-65080	PLUG, CORE	8						N	
(A=E6512203)											
5	2	165000-49520	BEARING	5							1
5-1	2	165000-73710	BEARING STD	5						N	1
(A=E1050134)											
5A	2	165001-26250	BEARING -0.25	5						N	1
(A=E1050134)											
5B	2	165000-93440	BEARING -0.50	5						N	1
(A=E1050134)											
5C	2	165000-93450	BEARING -0.75	5						N	1
(A=E1050134)											
5D	2	165001-26260	BEARING -1.00	5						N	1
(A=E1050134)											
6	2	165000-30520	PIN	5							
7	2	165000-26650	SCREW	10							
8	2	165000-26780	SCREW	10							
9	2	165000-30660	BUSH, BEARING	10							
10	2	165000-30860	PLUG, CORE 21MM	1							
11	2	165000-30820	PLUG, CORE	4							
12	2	165000-30840	PLUG, RIVET	1							
13	1	165000-32530	LINER, CYLINDER	8							
13-1	1	165001-39300	LINER, CYLINDER	8						N	
(A=E1063717)											
14	1	165000-24510	O-RING	8							
14-1	1	165001-31250	O-RING	8						N	
(A=E1058452)											
15	1	165000-24540	O-RING(147.5X4	8							
16	1	165000-28200	BEARING, THRUST STD	2						K	2
(A=E1050134)											
16A	1	165000-33560	BEARING, THRUST 0.52	2						N	2
(A=E1050134)											
16B	1	165000-33540	BEARING, THRUST 0.16	2						N	2
(A=E1050134)											
16C	1	165000-33550	BEARING, THRUST 0.26	2						N	2
(A=E1050134)											
16D	1	165000-33570	BEARING, THRUST 1.02	2						N	2
(A=E1050134)											
17	1	165000-29140	NOZZLE, PISTON	4							
18	1	165000-26870	SCREW, M10X1	4							
19	1	165000-25750	COVER	4							
20	1	165000-25220	GASKET	4							
21	1	165000-27400	SCREW, M8X40	32							
22	1	165000-25830	COVER	2							
22-1	1	165001-26640	COVER	2						N	
(A=E1048522)											
23	1	165000-25460	GASKET	2							
24	1	165000-27400	SCREW, M8X40	20							
25	1	165000-28500	TAP, DRAIN	3							
26	1	165000-25580	GASKET	3							

Fig.7. CYLINDER BLOCK(E6500001-6510539)



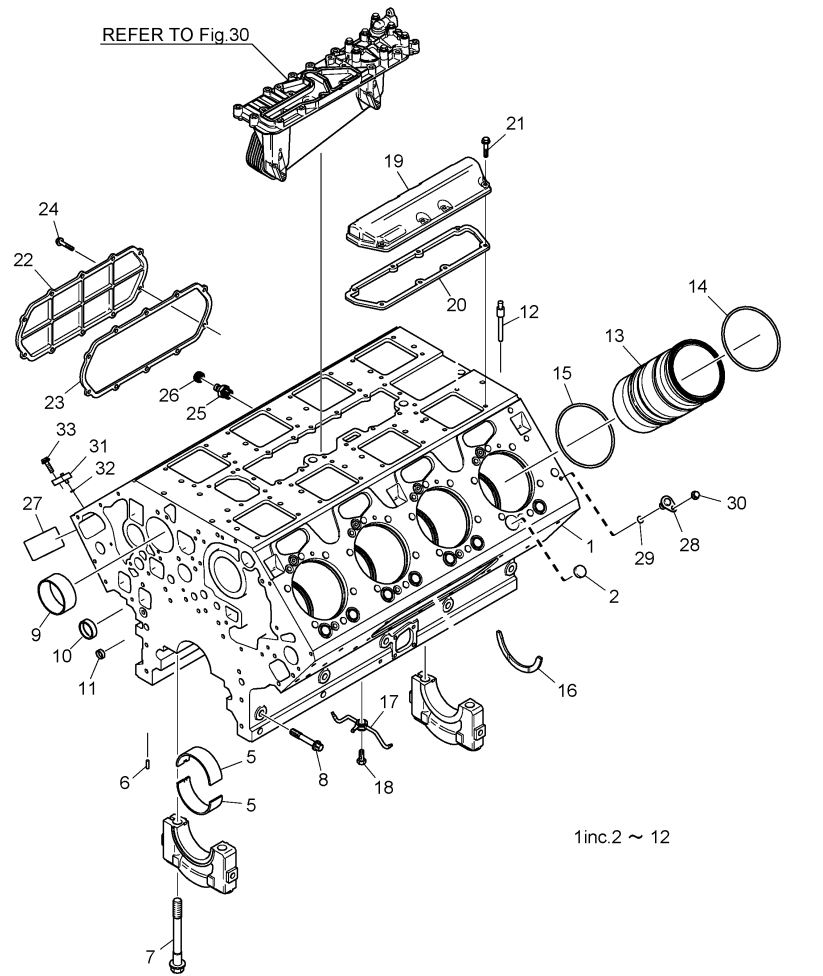
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Remarks
(1)UNDER SIZE METAL
(2)OVER SIZE METAL

OCR10-G57801 7. CYLINDER BLOCK(E6500001-6510539)

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
27	1	165000-31500	PLATE	1							
27-1	1	165001-30860	PLATE	1						N	
(A=E1057516)											
28	1	165000-30790	PLUG	1							
28-1	1	165001-26650	PLUG	1						N	
(A=E1048522)											
29	1	165000-24430	O-RING	1							
30	1	165000-27290	SCREW, M8X16	1							
31	1	165000-25800	COVER	1							
32	1	165000-50770	O-RING	1							
33	1	165000-27360	SCREW, M8X30	1							

Fig.8. CYLINDER BLOCK(E6510540-6510554)



136601

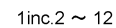
Remarks

(1)UNDER SIZE METAL

(2)OVER SIZE METAL

OCR10-G57801 8. CYLINDER BLOCK(E6510540-6510554)

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-50330	BLOCK ASSY, CYLINDER	1							
2	2	165000-30870	PLUG	8							
2-1	2	165000-65080	PLUG, CORE	8							N
(A=E6512203)											
5	2	165000-49520	SHELL, BEARING	5							
5-1	2	165000-73710	BEARING STD	5							N 1
(A=E1050134)											
5A	2	165001-26250	BEARING -0.25	5							N 1
(A=E1050134)											
5B	2	165000-93440	BEARING -0.50	5							N 1
(A=E1050134)											
5C	2	165000-93450	BEARING -0.75	5							N 1
(A=E1050134)											
5D	2	165001-26260	BEARING -1.00	5							N 1
(A=E1050134)											
6	2	165000-30520	PIN, 8X20	5							
7	2	165000-26650	SCREW	10							
8	2	165000-26780	SCREW	10							
9	2	165000-30660	BUSH, BEARING	10							
10	2	165000-30860	PLUG, CORE 21MM	1							
11	2	165000-30820	PLUG, CORE	4							
12	2	165000-30840	PLUG, RIVET	1							
13	1	165000-32530	LINER, CYLINDER	8							
13-1	1	165001-39300	LINER, CYLINDER	8							N
(A=E1063717)											
14	1	165000-24510	O-RING	8							
14-1	1	165001-31250	O-RING	8							N
(A=E1058452)											
15	1	165000-24540	O-RING, 147.5X4	8							
16	1	165000-28200	BEARING, THRUST STD	2							K 2
(A=E1050134)											
16A	1	165000-33540	BEARING, THRUST 0.16	2							N 2
(A=E1050134)											
16B	1	165000-33550	BEARING, THRUST 0.26	2							N 2
(A=E1050134)											
16C	1	165000-33560	BEARING, THRUST 0.52	2							N 2
(A=E1050134)											
16D	1	165000-33570	BEARING, THRUST 1.02	2							N 2
(A=E1050134)											
17	1	165000-29140	NOZZLE, PISTON	4							
18	1	165000-26870	SCREW, M10X1	4							
19	1	165000-25750	COVER	4							
20	1	165000-25220	GASKET	4							
21	1	165000-27400	SCREW, M8X40	32							
22	1	165000-25830	COVER	2							
22-1	1	165001-26640	COVER	2							N
(A=E1048522)											
23	1	165000-25460	GASKET	2							
24	1	165000-27400	SCREW, M8X40	20							
25	1	165000-37640	UNION	3							
I 25-1	1	165001-30940	UNION	3							N

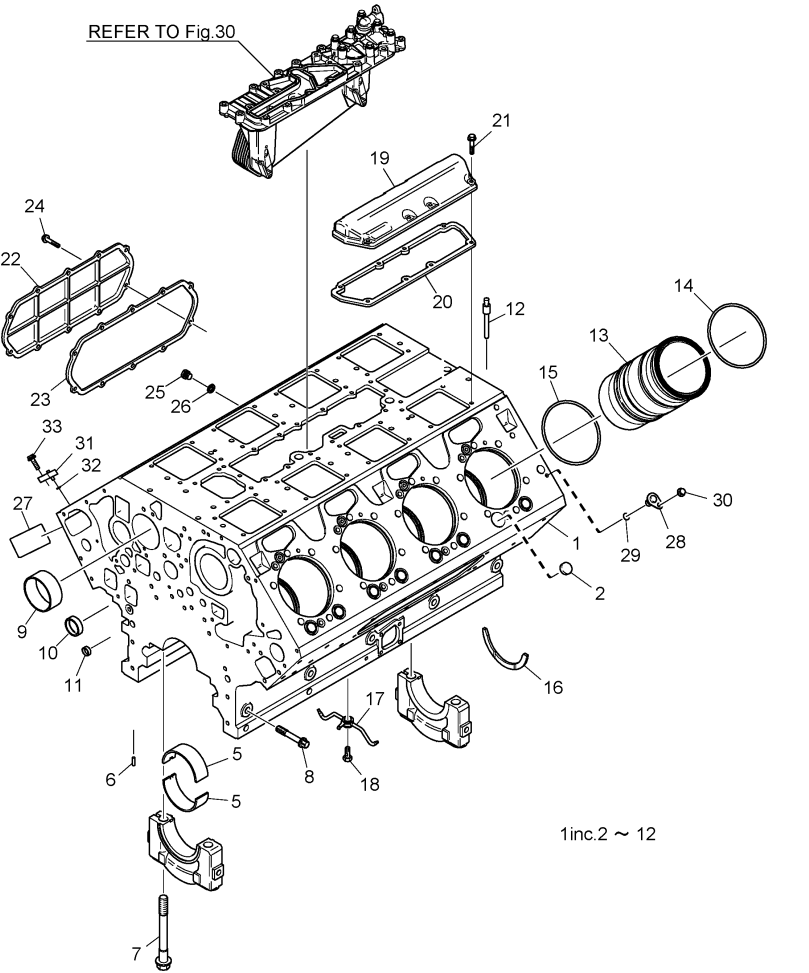


Remarks
(1)UNDER SIZE METAL
(2)OVER SIZE METAL

[illegible]

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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Fig.9. CYLINDER BLOCK(E6510555-6512531)



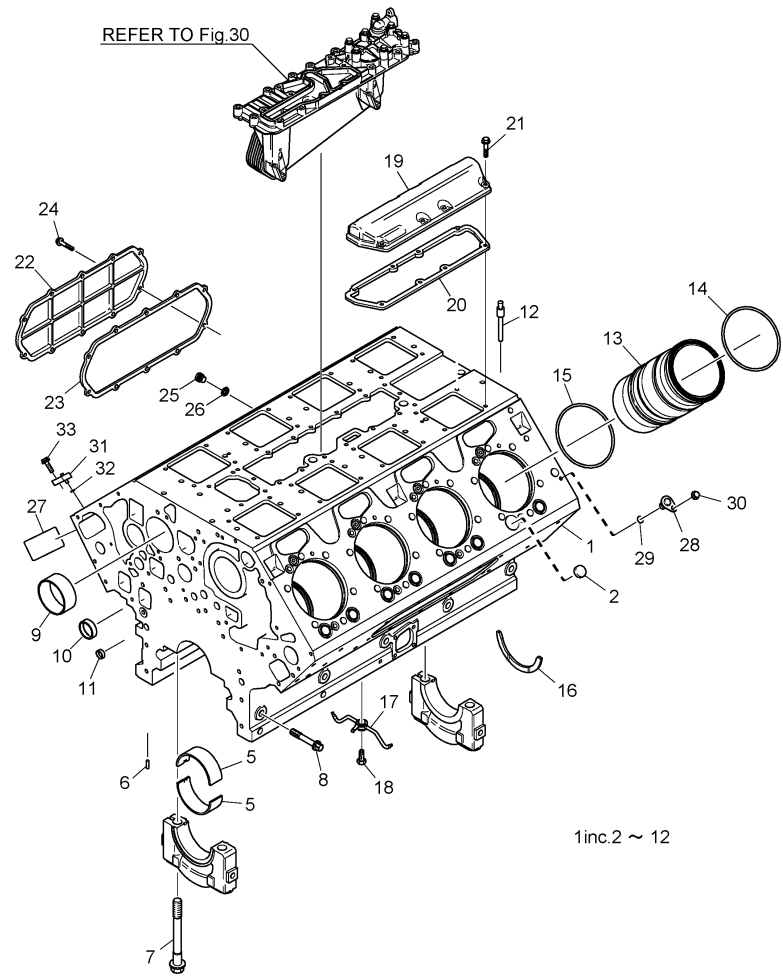
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Remarks
(1)UNDER SIZE METAL
(2)OVER SIZE METAL

OCR10-G57801 9. CYLINDER BLOCK(E6510555-6512531)

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-50340	BLOCK ASSY, CYLINDER	1							
2	2	165000-30870	PLUG	8							
2-1	2	165000-65080	PLUG, CORE	8						N	
(A=E6512203)											
5	2	165000-49520	SHELL, BEARING	5							
5-1	2	165000-73710	BEARING STD	5						N	1
(A=E1050134)											
5A	2	165001-26250	BEARING -0.25	5						N	1
(A=E1050134)											
5B	2	165000-93440	BEARING -0.50	5						N	1
(A=E1050134)											
5C	2	165000-93450	BEARING -0.75	5						N	1
(A=E1050134)											
5D	2	165001-26260	BEARING -1.00	5						N	1
(A=E1050134)											
6	2	165000-30520	PIN, 8X20	5							
7	2	165000-26650	SCREW M20X170	10							
8	2	165000-26780	SCREW M14X80	10							
9	2	165000-30660	BUSH, BEARING	10							
10	2	165000-30860	PLUG, CORE 21MM	1							
11	2	165000-30820	PLUG, CORE	4							
12	2	165000-30840	PLUG, RIVET	1							
13	1	165000-32530	LINER, CYLINDER	8							
13-1	1	165001-39300	LINER, CYLINDER	8							
(A=E1063717)											
14	1	165000-24510	O-RING	8							
14-1	1	165001-31250	O-RING	8							
(A=E1058452)											
15	1	165000-24540	O-RING, 147.5X4	8							
16	1	165000-28200	BEARING, THRUST STD	2						K	2
(A=E1050134)											
16A	1	165000-33540	BEARING, THRUST 0.16	2						N	2
(A=E1050134)											
16B	1	165000-33550	BEARING, THRUST 0.26	2						N	2
(A=E1050134)											
16C	1	165000-33560	BEARING, THRUST 0.52	2						N	2
(A=E1050134)											
16D	1	165000-33570	BEARING, THRUST 1.02	2						N	2
(A=E1050134)											
17	1	165000-29140	NOZZLE, PISTON	4							
18	1	165000-26870	SCREW, M10X1	4							
19	1	165000-25750	COVER	4							
20	1	165000-25220	GASKET	4							
21	1	165000-27400	SCREW, M8X40	32							
22	1	165000-25830	COVER	2							
22-1	1	165001-26640	COVER	2						N	
(A=E1048522)											
23	1	165000-25460	GASKET	2							
24	1	165000-27400	SCREW, M8X40	20							
25	1	165000-28500	TAP, DRAIN	3							
26	1	165000-25580	GASKET, 14.2X17.9	3							

Fig.9. CYLINDER BLOCK(E6510555-6512531)



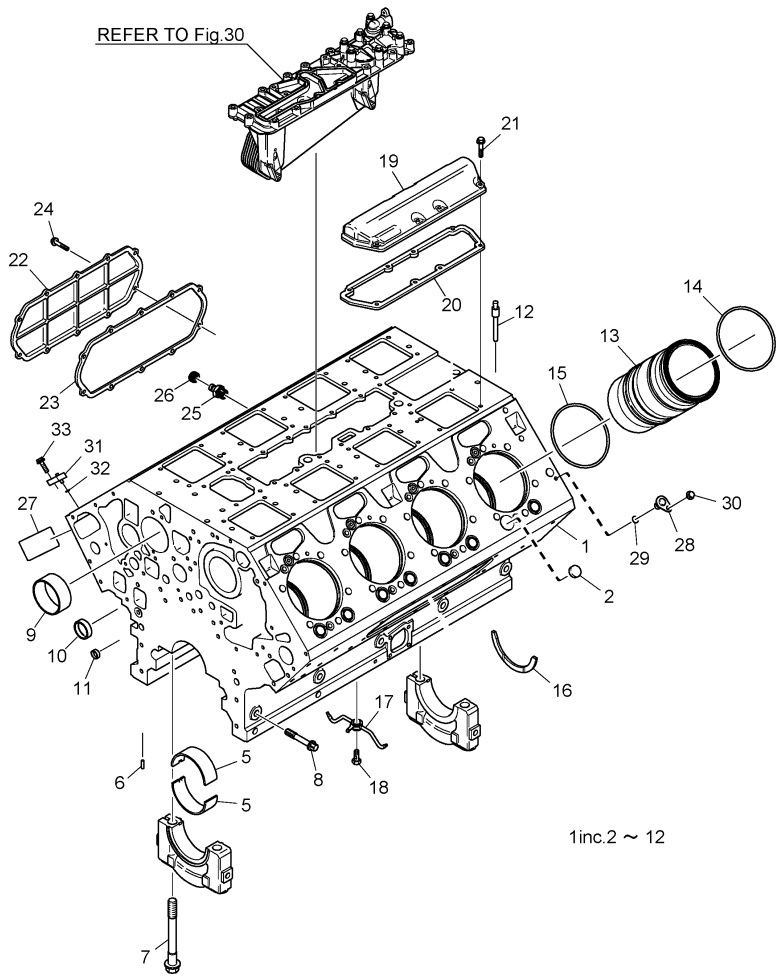
130697

Remarks
(1)UNDER SIZE METAL
(2)OVER SIZE METAL

OCR10-G57801 9. CYLINDER BLOCK(E6510555-6512531)

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
27	1	165000-31500	PLATE	1							
27-1	1	165001-30860	PLATE	1						N	
(A=E1057516)											
28	1	165000-30790	PLUG	1							
28-1	1	165001-26650	PLUG	1						N	
(A=E1048522)											
29	1	165000-24430	O-RING	1							
30	1	165000-27290	SCREW, M8X16	1							
31	1	165000-25800	COVER	1							
32	1	165000-50770	O-RING	1							
33	1	165000-27360	SCREW	1							

Fig.10. CYLINDER BLOCK(E6512532-6513510)



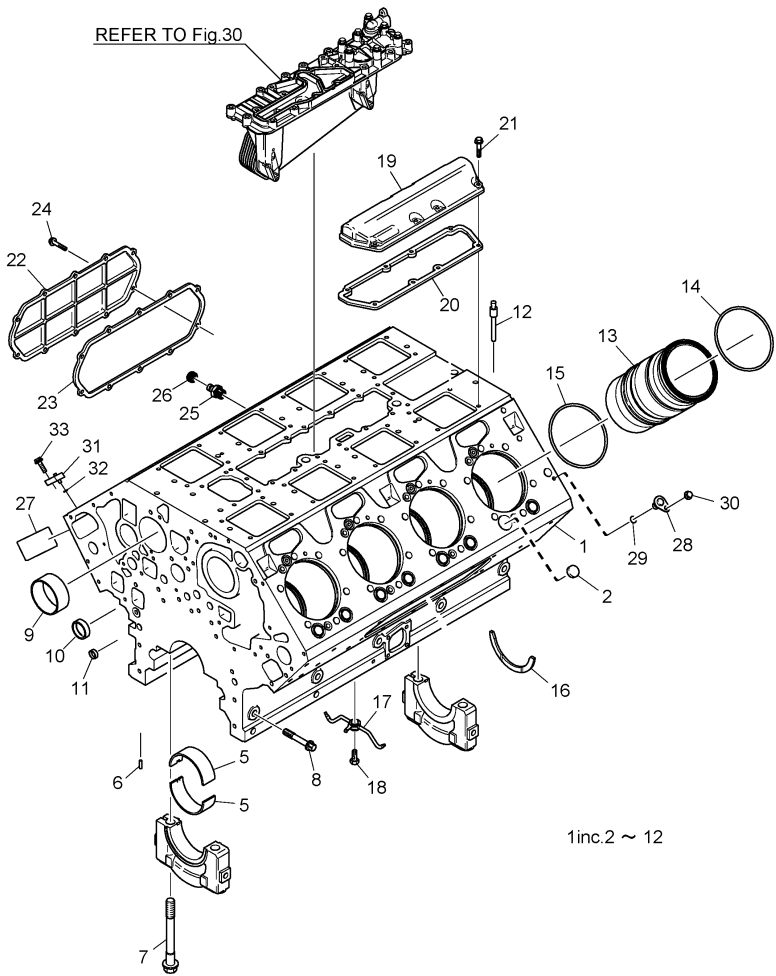
136601

Remarks

- (1)UNDER SIZE METAL
- (2)OVER SIZE METAL

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-31240	BLOCK, CYLINDER	1							
2	2	165000-65080		8							
5	2	165000-26650	SCREW	10							
6	2	165000-26780	SCREW	10							
7	2	165000-30660	BUSH, BEARING	10							
8	2	165000-30860	PLUG, CORE 21MM	1							
9	2	165000-30820	PLUG, CORE	4							
10	2	165000-30840	PLUG, RIVET	1							
11	1	165000-65080	PLUG, CORE	8							
12	1	165000-73710	BEARING STD	5							
12A	1	165001-26250	BEARING -0.25	5						N	1
(A=E*****)											
12B	1	165000-93440	BEARING -0.50	5						N	1
(A=E*****)											
12C	1	165000-93450	BEARING -0.75	5						N	1
(A=E*****)											
12D	1	165001-26260	BEARING -1.00	5						N	1
(A=E*****)											
13	1	165001-39300	LINER, CYLINDER	8							
14	1	165001-31250	O-RING	8							
15	1	165000-24540	O-RING, 147.5X4	8							
16	1	165000-28200	BEARING, THRUST STD	2							
16A	1	165000-33540	BEARING, THRUST 0.16	2						N	2
(A=E*****)											
16B	1	165000-33550	BEARING, THRUST 0.26	2						N	2
(A=E*****)											
16C	1	165000-33560	BEARING, THRUST 0.52	2						N	2
(A=E*****)											
16D	1	165000-33570	BEARING, THRUST 1.02	2						N	2
(A=E*****)											
17	1	165000-29140	NOZZLE, PISTON	4							
18	1	165000-26870	SCREW, M10X1	4							
19	1	165000-25750	COVER	4							
20	1	165000-25220	GASKET	4							
21	1	165000-27290	SCREW, M8X16	1							
I 21A	1	165000-27400	SCREW, M8X40	32							N
22	1	165000-25800	COVER	1							
I 22A	1	165001-26640	COVER	2							N
23	1	165000-25460	GASKET	2							
24	1	165000-27400	SCREW, M8X40	20							
25	1	165000-37220	SLEEVE, PROTECTION	3							
26	1	165001-31260	UNION	3							
27	1	165001-30860	PLATE	1							
28	1	165001-26650	PLUG	1							
29	1	165000-24430	O-RING	1							
32	1	165000-50770	O-RING	1							
33	1	165000-27360	SCREW, M8X30	1							

Fig.11. CYLINDER BLOCK(E1039758-)

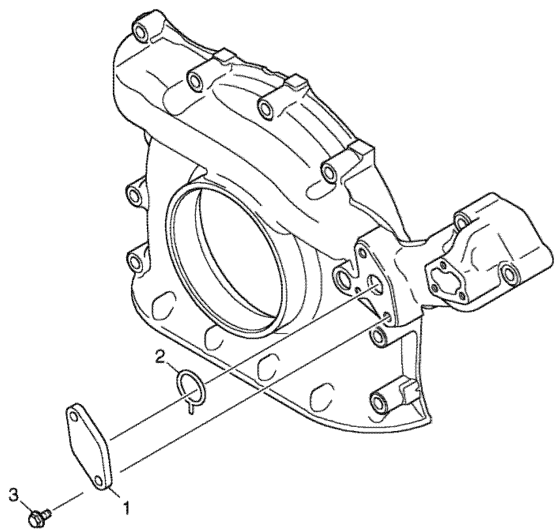


Remarks
(1)UNDER SIZE METAL
(2)OVER SIZE METAL

OCR10-G57801 11. CYLINDER BLOCK(E1039758-)

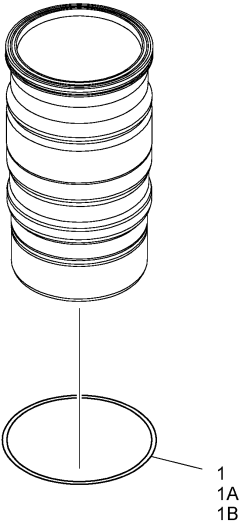
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-31240	BLOCK, CYLINDER	1							
2	2	165000-65080	PLUG	8							
5	2	165000-26650	SCREW	10							
6	2	165000-26780	SCREW	10							
7	2	165000-30660	BUSH, BEARING	10							
8	2	165000-30860	PLUG, CORE 21MM	1							
9	2	165000-30820	PLUG, CORE	4							
10	2	165000-30840	PLUG, RIVET	1							
11	1	165000-65080	PLUG, CORE	8							
12	1	165000-73710	BEARING STD	5							
12A	1	165001-26250	BEARING -0.25	5						N	1
(A=E*****)											
12B	1	165000-93440	BEARING -0.50	5						N	1
(A=E*****)											
12C	1	165000-93450	BEARING -0.75	5						N	1
(A=E*****)											
12D	1	165001-26260	BEARING -1.00	5						N	1
(A=E*****)											
13	1	165001-39300	LINER, CYLINDER	8							
14	1	165001-31250	O-RING	8							
15	1	165000-24540	O-RING, 147.5X4	8							
16	1	165000-28200	BEARING, THRUST STD	2							
16A	1	165000-33540	BEARING, THRUST 0.16	2						N	2
(A=E*****)											
16B	1	165000-33550	BEARING, THRUST 0.26	2						N	2
(A=E*****)											
16C	1	165000-33560	BEARING, THRUST 0.52	2						N	2
(A=E*****)											
16D	1	165000-33570	BEARING, THRUST 1.02	2						N	2
(A=E*****)											
17	1	165000-29140	NOZZLE, PISTON	4							
18	1	165000-26870	SCREW, M10X1	4							
19	1	165000-25750	COVER	4							
20	1	165000-25220	GASKET	4							
21	1	165000-27290	SCREW, M8X16	1							
21A	1	165000-27400	SCREW, M8X40	32							N
(A=E*****)											
22	1	165000-25800	COVER	1							
22A	1	165001-26640	COVER	2							N
(A=E*****)											
23	1	165000-25460	GASKET	2							
24	1	165000-27400	SCREW, M8X40	20							
25	1	165000-37220	SLEEVE, PROTECTION	3							
26	1	165001-31260	UNION	3							
27	1	165001-30860	PLATE	1							
28	1	165001-26650	PLUG	1							
29	1	165000-24430	O-RING	1							
32	1	165000-50770	O-RING	1							
33	1	165000-27360	SCREW, M8X30	1							

0CR10-G57801
Fig.12. COVER



0CR10-G57801 12. COVER

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-27030	COVER	1							
2	1	165000-50780	O-RING	1							
3	1	165000-27300	SCREW, M8X20	1							



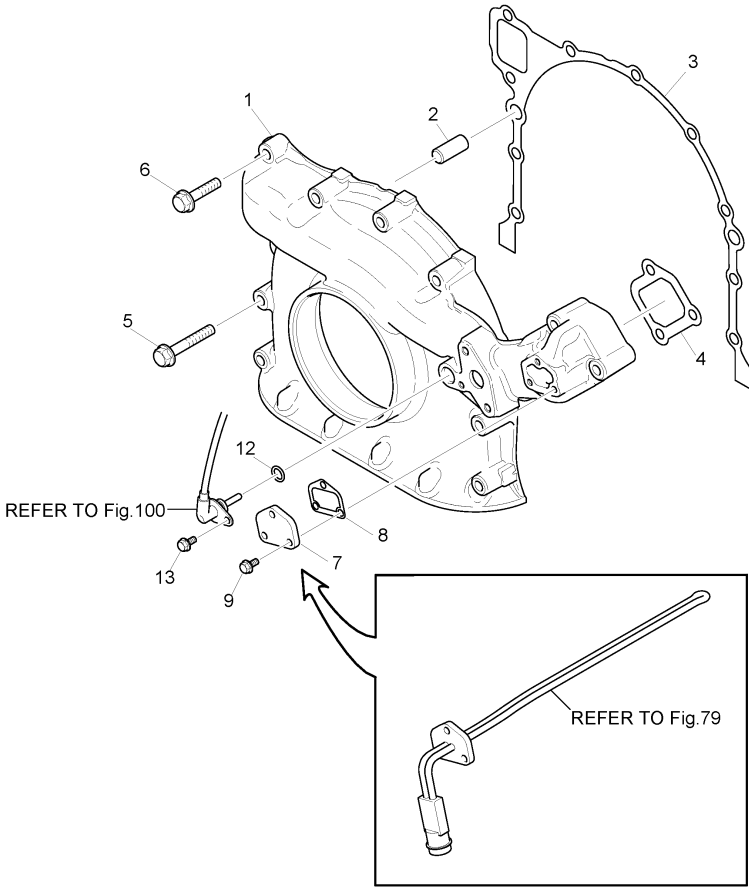
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-49570	SHIM, TH 0.2	999							
1A	1	165000-49580	SHIM, TH 0.3	999							
1B	1	165000-49590	SHIM, TH 0.4	999							

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

Remarks
(1)REQUIRE

OCR10-G57801
Fig.14. CASING



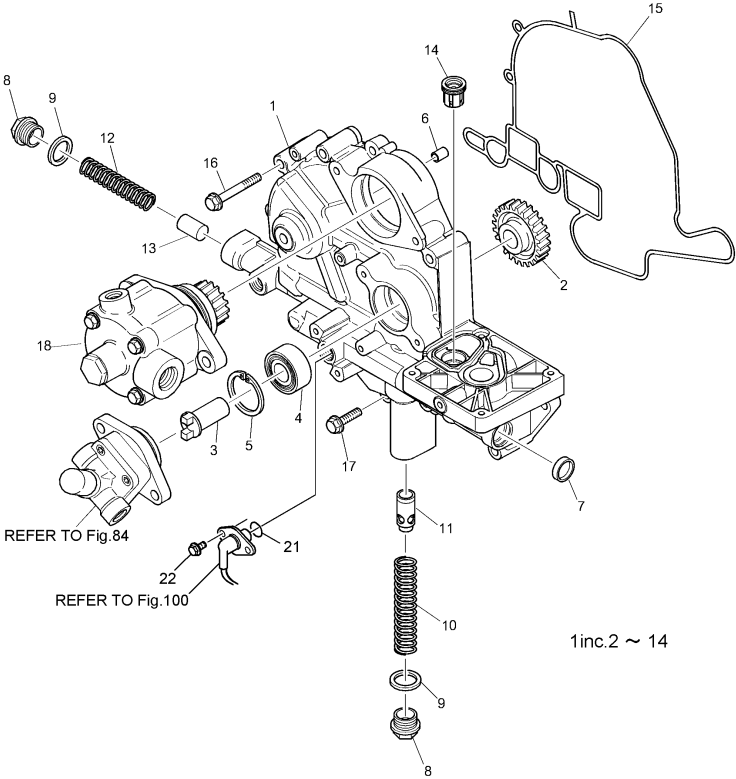
OCR10-G57801 14. CASING

REF.	LEV.	PARTS NO.	DESCRIPTION	(A)=8SY-STP (B)= (C)=						(D)= (E)= (F)=						I	R
				(A)	(B)	(C)	(D)	(E)	(F)								
1	1	165000-50310	COVER	1													
1-1	1	165001-26630	COVER, FRONT	1												N	
(A=E*****)																	
2	1	165000-30510	PIN, 16X35	2													
3	1	165000-25430	GASKET	1													
4	1	165000-25340	GASKET	1													
5	1	165000-27000	SCREW, M10X60	11													
6	1	165000-26990	SCREW, M10X40	2													
7	1	165000-25710	COVER	1													1
8	1	165000-25190	GASKET	1													1
9	1	165000-27240	SCREW, M6X16	3													1
12	1	165000-24520	O-RING, 11.3X2.4	1													
13	1	165000-27240	SCREW, M6X16	1													

115912

Remarks
(1)WITHOUT ELECTRIC ENGINE HEATER.

Fig.15. TIMING GEAR CASING

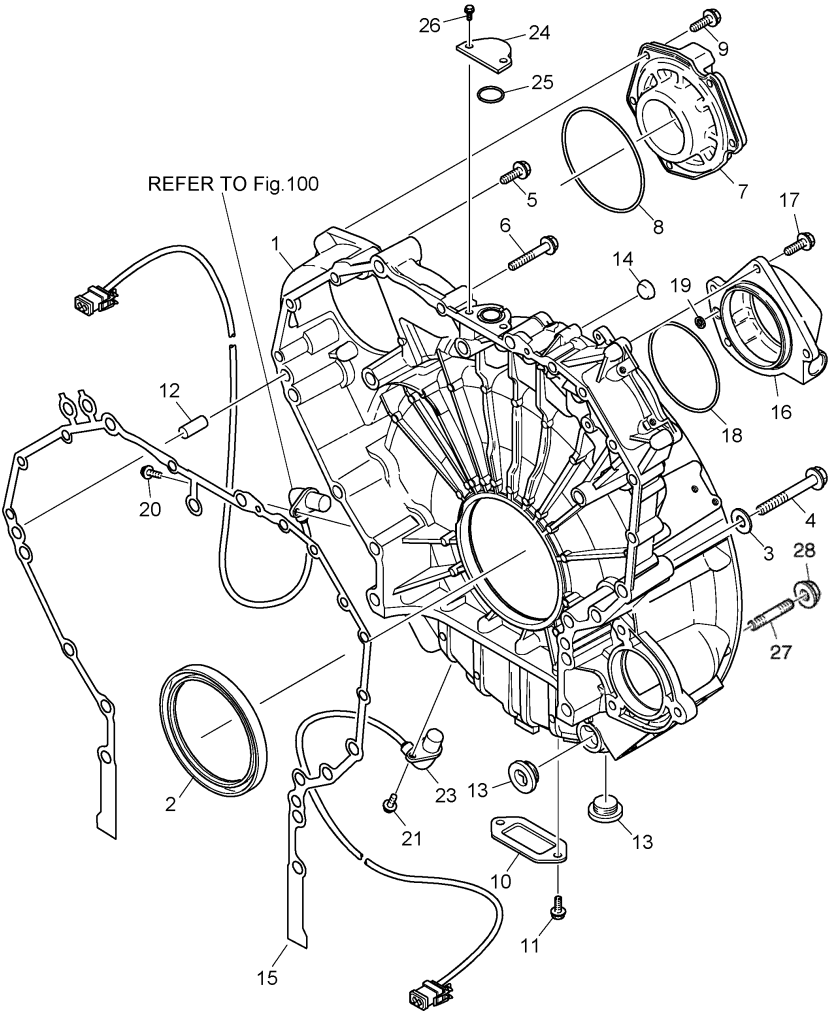


REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-26380	TIMING GEAR CASING	1							
2	2	165000-25980	GEAR	1							
3	2	165000-27700	SHAFT	1							
4	2	165000-31920	BEARING, BALL	1							
5	2	165000-32720	RING, RETAINING	1							
6	2	165000-28260	SLEEVE, GUIDE	2							
7	2	165000-30770	PLUG	2							
8	2	165000-30940	PLUG, M22X1.5X9	2							
9	2	165000-25610	GASKET, 22.2X26.9	2							
10	2	165000-28160	SPRING	1							
11	2	165000-30370	PISTON	1							
12	2	165000-28150	SPRING	1							
13	2	165000-30380	PISTON	1							
14	2	165000-30270	VALVE, OVERFLOW	1							
15	1	165000-25160	GASKET	1							
16	1	165000-27360	SCREW, M8X30	7							
17	1	165000-27430	SCREW, M8X60	8							
18	1	165000-30810	PLUG, CORE	1							1
21	1	165000-24520	O-RING	1							
22	1	165000-27240	SCREW	2							

124953

Remarks
(1)WHEN THERE IS NO HYDRAULIC PUMP

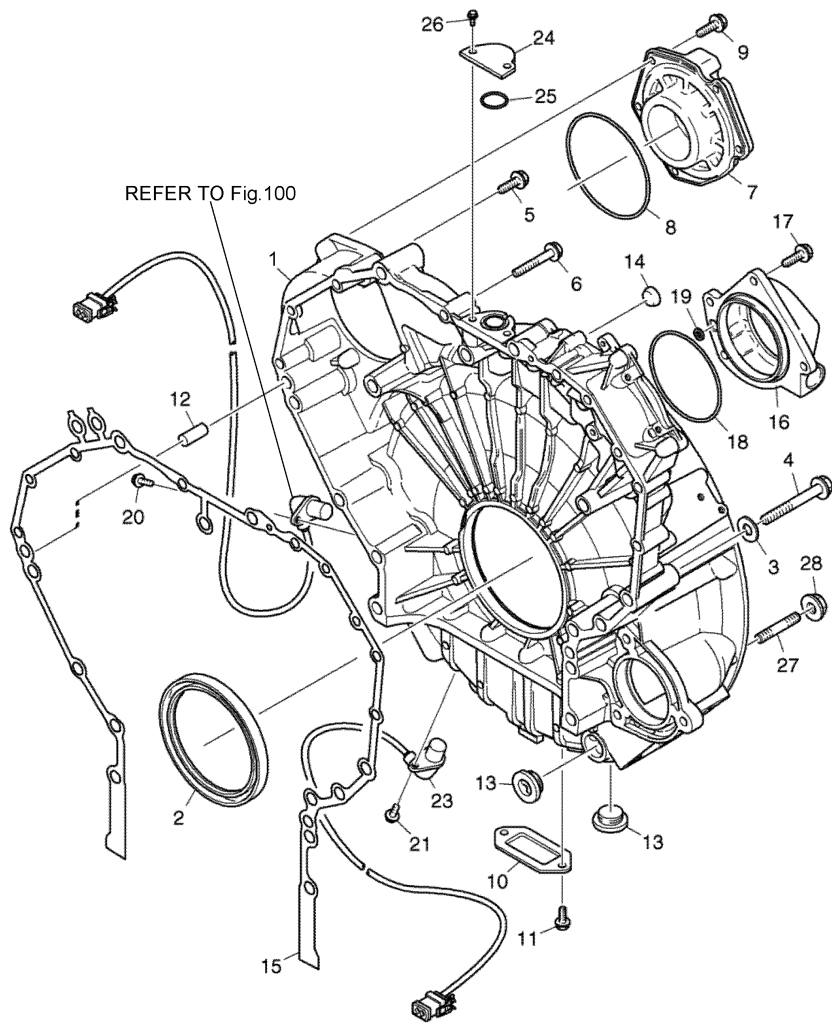
Fig.16. FLYWHEEL HOUSING(E6500001-6513510)



OCR10-G57801 16. FLYWHEEL HOUSING(E6500001-6513510)

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-29850	HOUSING	1							
1-1	1	165001-41670	HOUSING, FLYWHEEL	1							N
(A=E*****)											
2	1	165000-27890	SEAL, SHAFT	1							
3	1	165000-33100	WASHER, 13X28	11							
4	1	165000-27050	SCREW, M12X100	11							
5	1	165000-27000	SCREW, M10X60	6							
6	1	165000-26930	SCREW, M10X30	3							
7	1	165000-30140	HOUSING, BEARING	1							
8	1	165000-24450	O-RING	1							
9	1	165000-26930	SCREW, M10X30	2							
10	1	165000-25690	COVER	1							
11	1	165000-27300	SCREW, M8X20	2							
12	1	165000-30510	PIN, 16X35	2							
13	1	165000-25740	COVER	2							
14	1	165000-30850	PLUG, CORE 21MM	1							
15	1	165000-25370	GASKET	1							
16	1	165000-50460	FLANGE	1							
17	1	165000-26930	SCREW, M10X30	4							
18	1	165000-24530	O-RING, 114.5X3	1							
19	1	165000-27960	RING, SEALING	1							
20	1	165000-27230	SCREW, M6X16	1							
21	1	165000-27230	SCREW, M6X16	1							
23	1	165000-30850	PLUG, CORE 21MM	1							
24	1	165000-50320	COVER	1							
25	1	165000-50780	O-RING	1							
26	1	165000-27330	SCREW, M8X25	2							
27	1	165000-28030	STUD, M10X50	12							N
(A=E*****)											
28	1	165000-28870	NUT, FLANGE M10	12							N
(A=E*****)											

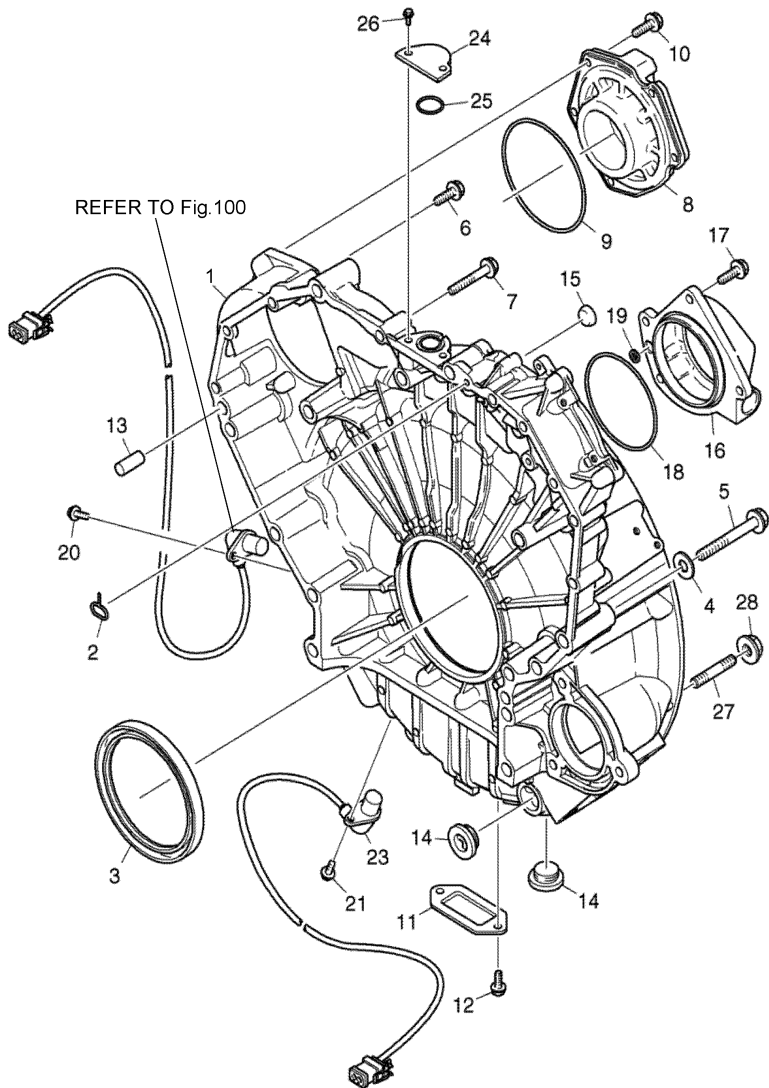
Fig.17. FLYWHEEL HOUSING(E(E1039758-1060948)



150665

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-41670	HOUSING, FLYWHEEL	1							
2	1	165000-27890	SEAL, SHAFT	1							
3	1	165000-33100	WASHER, 13X28	11							
4	1	165000-27050	SCREW, M12X100	11							
5	1	165000-27000	SCREW, M10X60	6							
6	1	165000-26930	SCREW, M10X30	3							
8	1	165000-24450	O-RING	1							
9	1	165000-26930	SCREW, M10X30	2							
10	1	165000-25690	COVER	1							
11	1	165000-27300	SCREW, M8X20	2							
12	1	165000-30510	PIN, 16X35	2							
13	1	165000-25740	COVER	2							
14	1	165000-30850	PLUG, CORE 21MM	1							
15	1	165000-25370	GASKET	1							
16	1	165000-50460	FLANGE	1							
17	1	165000-26930	SCREW, M10X30	4							
18	1	165000-24530	O-RING, 114.5X3	1							
19	1	165000-27960	RING, SEALING	1							
20	1	165000-27230	SCREW, M6X16	1							
21	1	165000-27230	SCREW, M6X16	1							
24	1	165000-50320	COVER	1							
25	1	165000-50780	O-RING	1							
26	1	165000-27330	SCREW, M8X25	2							
27	1	165001-27550	STUD BOLT	12							
28	1	165000-35570	NUT, LOCK M10	12							

Fig.18. FLYWHEEL HOUSING(E1060949-)



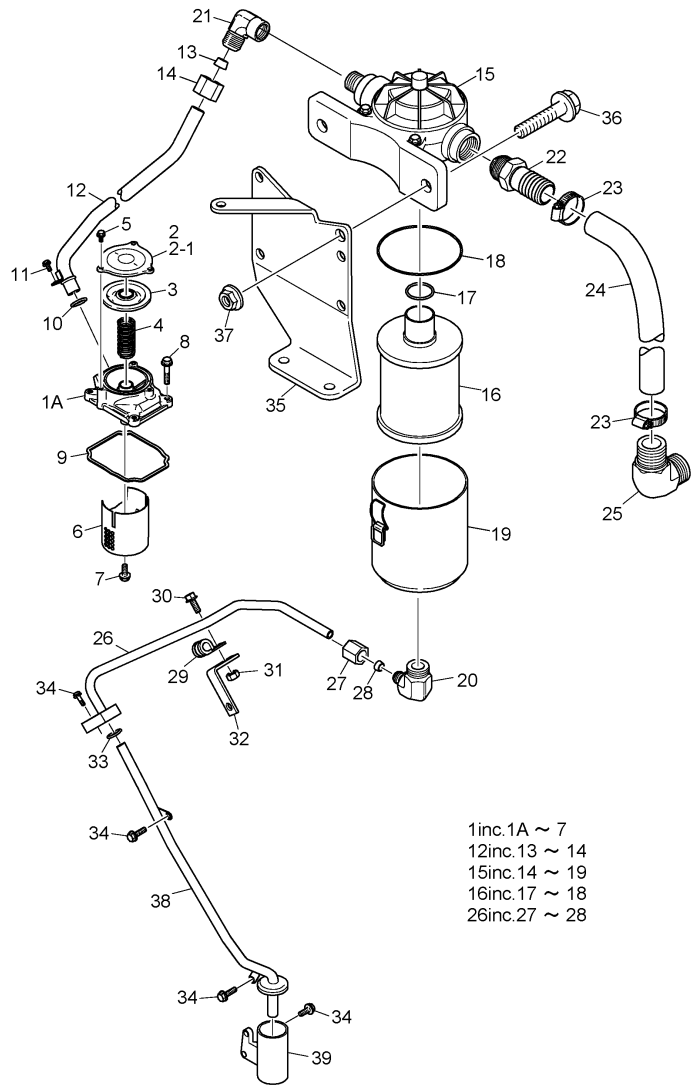
155664

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-41670	HOUSING, FLYWHEEL	1							
2	1	165000-27890	SEAL, SHAFT	1							
3	1	165000-33100	WASHER, 13X28	11							
4	1	165000-27050	SCREW, M12X100	11							
5	1	165000-27000	SCREW, M10X60	6							
6	1	165000-26930	SCREW, M10X30	3							
7	1	165000-30140	HOUSING, BEARING	1							
8	1	165000-24450	O-RING	1							
9	1	165000-26930	SCREW, M10X30	2							
10	1	165000-25690	COVER	1							
11	1	165000-27300	SCREW, M8X20	2							
12	1	165000-30510	PIN, 16X35	2							
13	1	165000-25740	COVER	2							
14	1	165000-30850	PLUG, CORE 21MM	1							
15	1	165000-50460	FLANGE	1							
16	1	165000-26930	SCREW, M10X30	4							
17	1	165000-24530	O-RING, 114.5X3	1							
18	1	165000-27960	RING, SEALING	1							
19	1	165000-27230	SCREW, M6X16	1							
20	1	165000-27230	SCREW, M6X16	1							
21	1	165000-50320	COVER	1							
24	1	165000-50780	O-RING	1							
25	1	165000-27330	SCREW, M8X25	2							
26	1	165001-27550	STUD BOLT	12							
27	1	165000-35570	NUT, LOCK M10	12							

Fig.19. CRANKCASE VENTILATION(E6500001-6513510)



1inc.1A ~ 7
12inc.13 ~ 14
15inc.14 ~ 19
16inc.17 ~ 18
26inc.27 ~ 28

136540

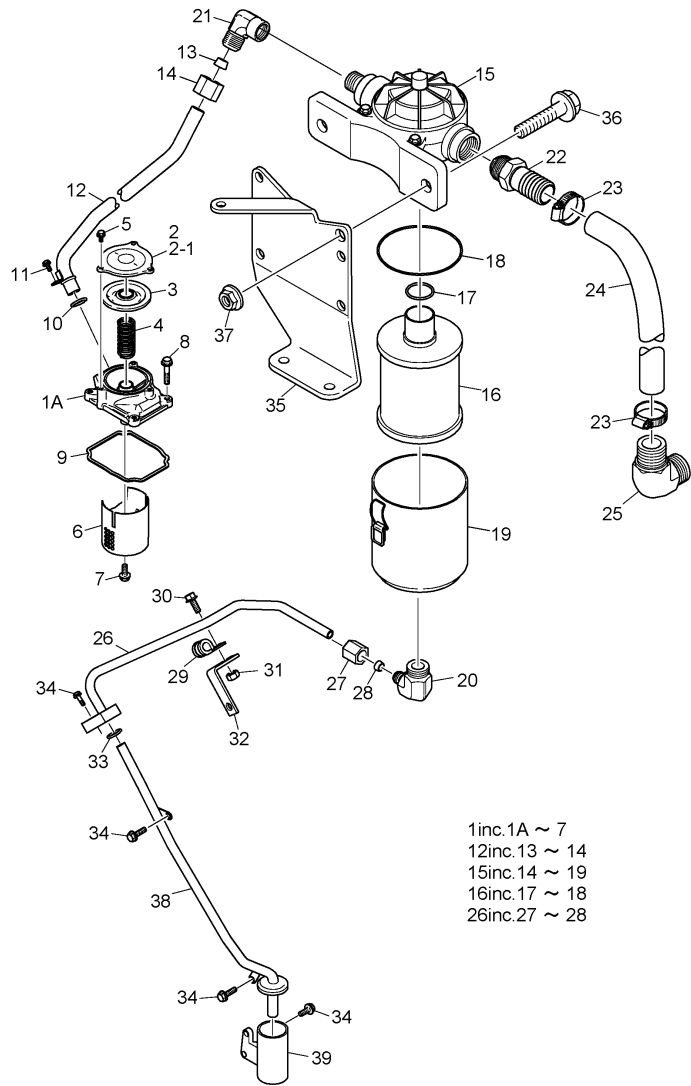
(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-29810	HOUSING	1							
1A	1	165001-31180	HOUSING, VALVE	1							N
(A=E*****)											
2	2	165000-25760	COVER	1							
2-1	2	165001-31190	COVER	1							
3	2	165000-28460	DIAPHRAGM	1							
4	2	165000-28140	SPRING	1							
5	2	165000-27230	SCREW, M6X16	3							
6	2	165000-31530	PREFILTER	1							
7	2	165000-27300	SCREW, M8X20	1							
8	1	165000-27400	SCREW, M8X40	4							
9	1	165000-25240	GASKET	1							
10	1	165000-24560	O-RING, 22X3	1							
11	1	165000-27240	SCREW, M6X16	1							
12	1	165000-50830	PIPE	1							
15	1	165000-31590	VENTILATION, CRANK	1							
16	2	165000-50450	FILTER	1							
20	1	165000-30300	VALVE, CHECK	1							
21	1	165000-32250	UNION	1							
22	1	165000-32240	UNION	1							
23	1	165000-31830	CLAMP, HOSE	2							
24	1	165000-31700	HOSE	1							
25	1	165000-50390	UNION, ELBOW	1							
26	1	165000-50840	PIPE	1							
26-1	1	165001-31200	HOSE	1							
29	1	165000-50250	CLAMP, 10	1							
30	1	165000-27240	SCREW, M6X16	1							
31	1	165000-29020	NUT, HEXAGON M6	1							
32	1	165000-50030	BRACKET	1							
33	1	165000-50770	O-RING	1							
34	1	165000-27360	SCREW, M8X30	999							1
35	1	165000-50040	BRACKET	1							
36	1	165000-26910	SCREW, M10X25	2							
37	1	165000-28870	NUT, FLANGE M10	2							
38	1	165000-50930	PIPE ASSY	1							
39	1	165000-51030	RESERVOIR	1							
40	1	165001-31210	BRACKET	1							W
(A=E*****)											
41	1	165001-31220	CLAMP	1							W
(A=E*****)											
42	1	165001-27150	SCREW, FLANGE	1							W
(A=E*****)											
43	1	165000-29010	NUT, FLANGE M6	1							W
(A=E*****)											

Remarks
(1) REQUIRE

Fig.20. CRANKCASE VENTILATION(E1039758-1060948)



1inc.1A ~ 7
12inc.13 ~ 14
15inc.14 ~ 19
16inc.17 ~ 18
26inc.27 ~ 28

136540

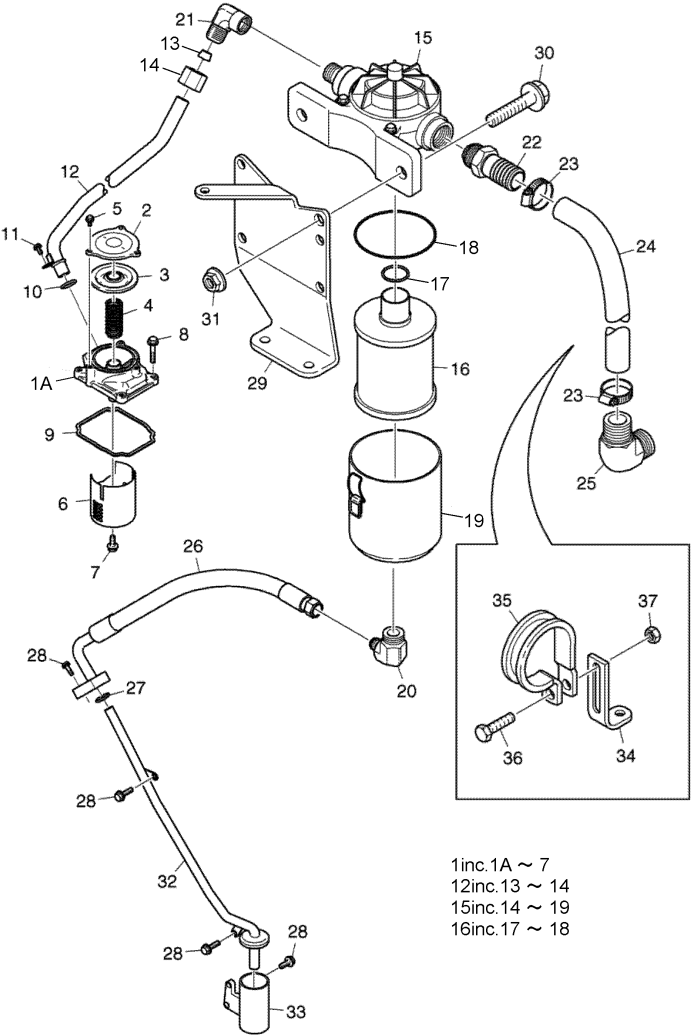
(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-29810	HOUSING	1							
1A	1	165001-31180	HOUSING, VALVE	1							N
(A=E*****)											
2	2	165000-25760	COVER	1							
2-1	2	165001-31190	COVER	1							
3	2	165000-28460	DIAPHRAGM	1							
4	2	165000-28140	SPRING	1							
5	2	165000-27230	SCREW, M6X16	3							
6	2	165000-31530	PREFILTER	1							
7	2	165000-27300	SCREW, M8X20	1							
8	1	165000-27400	SCREW, M8X40	4							
9	1	165000-25240	GASKET	1							
10	1	165000-24560	O-RING, 22X3	1							
11	1	165000-27240	SCREW, M6X16	1							
12	1	165000-50830	PIPE	1							
15	1	165000-31590	VENTILATION, CRANK	1							
16	2	165000-50450	FILTER	1							
20	1	165000-30300	VALVE, CHECK	1							
21	1	165000-32250	UNION	1							
22	1	165000-32240	UNION	1							
23	1	165000-31830	CLAMP, HOSE	2							
24	1	165000-31700	HOSE	1							
25	1	165000-50390	UNION, ELBOW	1							
26	1	165000-50840	PIPE	1							
26-1	1	165001-31200	HOSE	1							
29	1	165000-50250	CLAMP, 10	1							
30	1	165000-27240	SCREW, M6X16	1							
31	1	165000-29020	NUT, HEXAGON M6	1							
32	1	165000-50030	BRACKET	1							
33	1	165000-50770	O-RING	1							
34	1	165000-27360	SCREW, M8X30	999							1
35	1	165000-50040	BRACKET	1							
36	1	165000-26910	SCREW, M10X25	2							
37	1	165000-28870	NUT, FLANGE M10	2							
38	1	165000-50930	PIPE ASSY	1							
39	1	165000-51030	RESERVOIR	1							
40	1	165001-31210	BRACKET	1							W
(A=E*****)											
41	1	165001-31220	CLAMP	1							W
(A=E*****)											
42	1	165001-27150	SCREW, FLANGE	1							W
(A=E*****)											
43	1	165000-29010	NUT, FLANGE M6	1							W
(A=E*****)											

Remarks
(1) REQUIRE

Fig.21. CRANKCASE VENTILATION(E1045448-)



1inc.1A ~ 7
12inc.13 ~ 14
15inc.14 ~ 19
16inc.17 ~ 18

146932

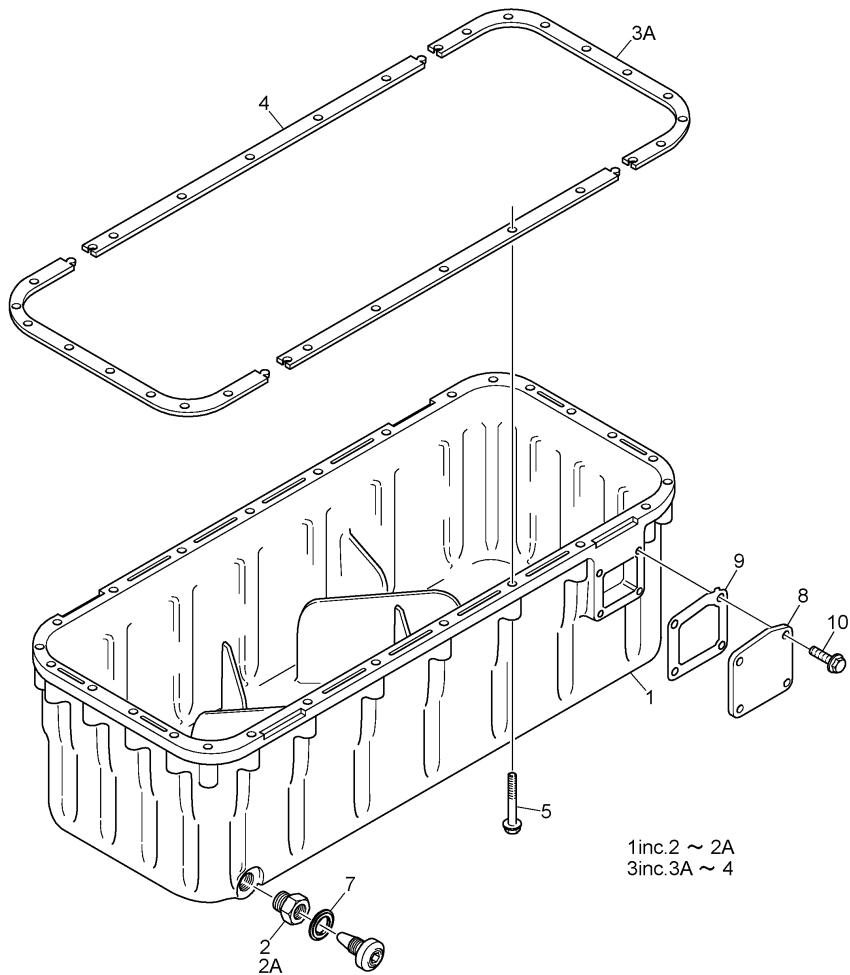
(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-29810	HOUSING, VALVE	1							
1A	1	165001-31180		1							
2	1	165001-31190	COVER	1							
3	1	165000-28460	DIAPHRAGM	1							
4	1	165000-28140	SPRING	1							
5	1	165000-27230	SCREW, M6X16	3							
6	1	165000-31530	PREFILTER	1							
7	1	165000-27300	SCREW, M8X20	1							
8	1	165000-27400	SCREW, M8X40	4							
9	1	165000-25240	GASKET	1							
10	1	165000-24560	O-RING, 22X3	1							
11	1	165000-27240	SCREW, M6X16	1							
12	1	165000-50830	PIPE	1							
15	1	165000-31590	VENTILATION, CRANK	1							
16	1	165000-50450	FILTER	1							
20	1	165000-30300	VALVE, CHECK	1							
21	1	165000-32250	UNION	1							
22	1	165000-32240	UNION	1							
23	1	165000-31830	CLAMP, HOSE	2							
24	1	165000-31700	HOSE	1							
25	1	165000-50390	UNION, ELBOW	1							
26	1	165001-31200	HOSE	1							
27	1	165000-50770	O-RING	1							
28	1	165000-27360	SCREW, M8X30	999							1
29	1	165000-50040	BRACKET	1							
30	1	165000-26910	SCREW, M10X25	2							
31	1	165000-28870	NUT, FLANGE M10	2							
32	1	165000-50930	PIPE ASSY	1							
33	1	165000-51030	RESERVOIR	1							
34	1	165001-31210	BRACKET	1							
35	1	165001-31220	CLAMP	1							
36	1	165001-27150	SCREW, FLANGE	1							
37	1	165000-29010	NUT, FLANGE M6	1							

Remarks
(1) REQUIRE

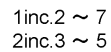
0CR10-G57801
Fig.22. OIL SUMP

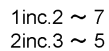


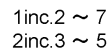
1inc.2 ~ 2A
3inc.3A ~ 4

0CR10-G57801 22. OIL SUMP

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-25050	SUMP, OIL	1							
2	2	165000-24860	Reducing union	2							
2A	2	165000-51150	INSEAT, M8X11.4	4							N
(A=E*****)											
3	1	165000-25540	GASKET ASSY	1							
3-1	1	165001-31480	GASKET ASSY	1							N
(A=E*****)											
5	1	165000-27440	SCREW, M8X60	26							
6	1	165000-30960	PLUG, MAGNATIC	2							
7	1	165000-33000	WASHER, SEALING	2							
8	1	165000-50300	COVER	1							
9	1	165000-25320	GASKET	1							
10	1	165000-27300	SCREW, M8X20	4							

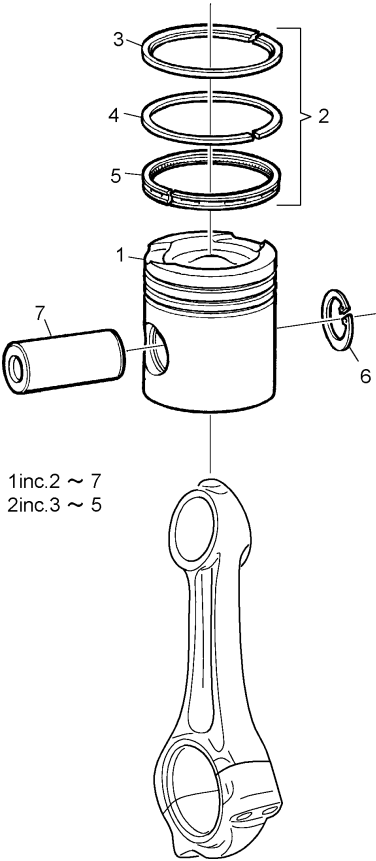






N:Old ☐ Yes ☐ No New, Q:Old ☐ No ☐ Yes New, R:Old ☐ Yes ☐ No New, S:Old ☐ No ☐ Yes New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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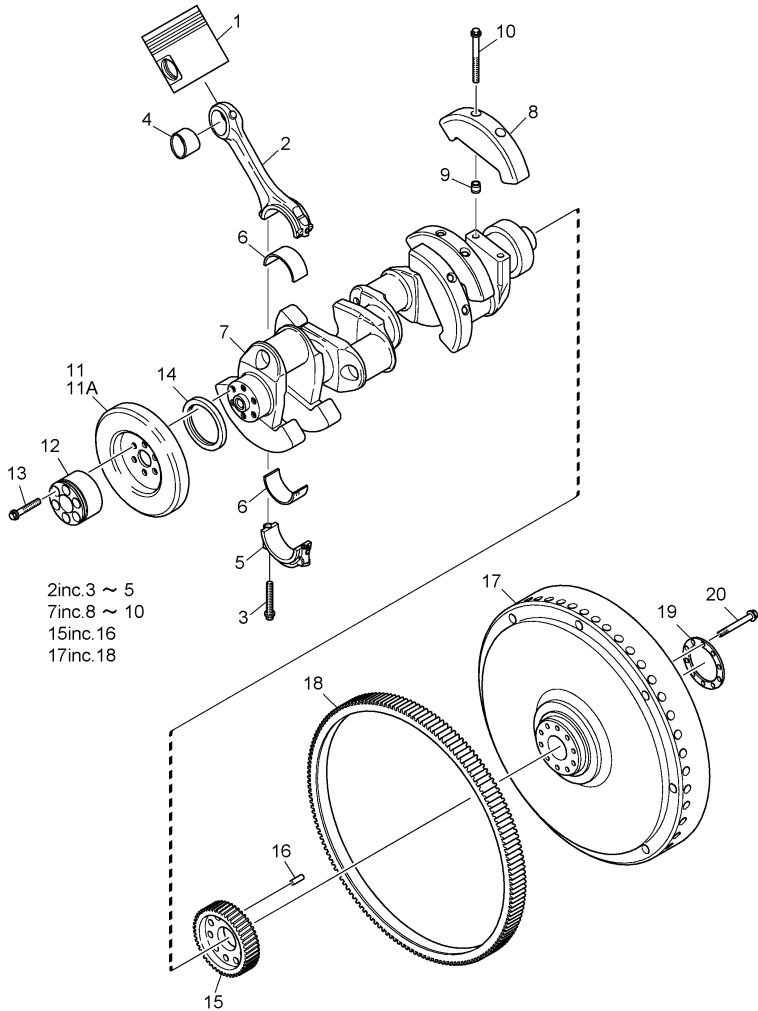
Fig.26. PISTON(E1045833-)



OCR10-G57801 26. PISTON(E1045833-)

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-49230	PISTON ASSY	8							
2	1	165000-32680	RING SET, PISTON	1							
3	1	165001-30890	RING, COMPRESSION	1							
4	1	165000-32600	RING, COMPRESSION	1							
5	1	165001-26270	RING, OIL SCRAPER	1							
6	1	165000-32710	RING, RETAINING	2							
7	1	165000-30470	PIN, GUDGEON	1							

Fig.27. CRANK MECHANISM



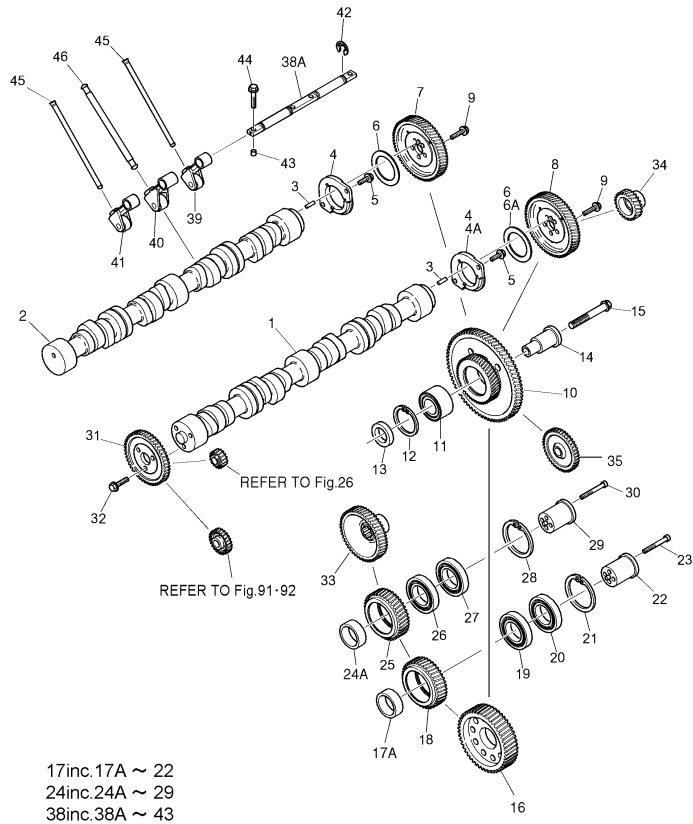
2inc.3 ~ 5
7inc.8 ~ 10
15inc.16
17inc.18

130687

Remarks
(1)E6500001-6513510, -E1039446
(2)E 1039447-

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-30390	PISTON ASSY	8							
2	1	165000-26610	ROD, CONNECTING	8							
3	2	165000-26750	SCREW	2							
4	2	165000-49980	BUSH, BEARING	1							
4-1	2	165000-33810	BUSH, BEARING	1							
6	1	165000-49990	SHELL	8							
6-1	1	165001-26670	SHALL, BEARING STD	8						N	
(A=E*****)											
6A	1	165000-27640	SHALL, BEARING US.25	8							
6A-1	1	165001-31270	SHALL, BEARING US.25	8						N	
(A=E*****)											
6B	1	165000-27650	SHALL, BEARING US.50	8							
6B-1	1	165001-26680	SHALL, BEARING US.50	8						N	
(A=E*****)											
6C	1	165000-27660	SHALL, BEARING US.75	8							
6C-1	1	165001-26690	SHALL, BEARING US.75	8						N	
(A=E*****)											
6D	1	165000-27670	SHALL, BEARING US1.0	8							
6D-1	1	165001-26700	SHALL, BEARING US1.0	8						N	
(A=E*****)											
7	1	165000-26180	CRANKSHAFT	1							
7-1	1	165000-26170	CRANKSHAFT	1						N	
(A=E*****)											
9	2	165000-28250	SLEEVE	12							
10	2	165000-26680	SCREW	12							
11	1	165000-28630	DAMPER, CRANKSHAFT	1							1
11A	1	165001-31280	DAMPER, CRANKSHAFT	1						N	2
(A=E*****)											
12	1	165000-27690	JOURNAL, SHAFT	1							
13	1	165000-27130	SCREW, M14X74.5	6							
14	1	165000-27900	SEAL, SHAFT	1							
15	1	165000-26080	GEAR, CRANKSHAFT	1							
16	2	165000-30500	PIN, 12X40	1							
17	1	165000-30720	FLYWHEEL ASSY	1							
18	2	165000-49020	GEAR, EXTERNAL RING	1							
19	1	165000-32990	WASHER	1							
20	1	165000-26700	SCREW	10							

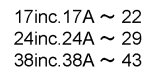
Fig.28. TIMING GEAR



17inc.17A ~ 22
24inc.24A ~ 29
38inc.38A ~ 43

123636

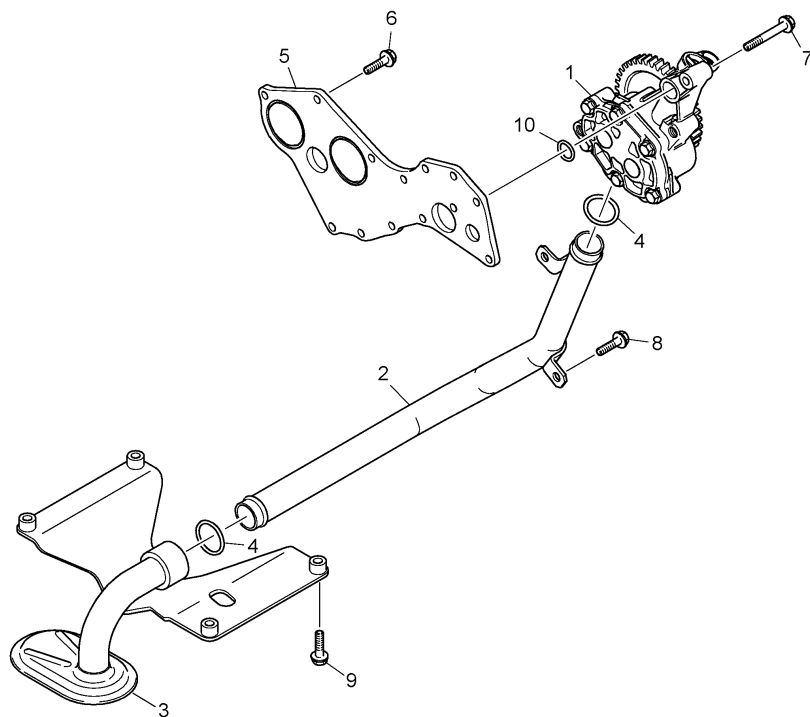
REF.	LEV.	PARTS NO.	DESCRIPTION	(A)=8SY-STP (B)= (C)=						(D)= (E)= (F)=						I	R
				(A)	(B)	(C)	(D)	(E)	(F)								
1	1	165000-50210	CAMSHAFT, LH	1													
1-1	1	165001-26730	CAMSHAFT, LH	1												N	
(A=E*****)																	
2	1	165000-50220	CAMSHAFT, RH	1													
I 2-1	1	165001-26740	CAMSHAFT, RH	1												N	
3	1	165000-30480	PIN, 10X25	2													
4	1	165000-50600	FLANGE, GUIDE	2													1
4A	1	165000-31360	FLANGE, GUIDE	2												N	2
(A=E*****)																	
5	2	165000-32490	SCREW, M10X30	4													
6	1	165000-33050	WASHER, THRUST	2													1
6A	1	165000-33050	WASHER, THRUST	4												K	2
(A=E*****)																	
7	1	165000-26060	GEAR, RH	1													
8	1	165000-26030	GEAR, LH	1													
9	1	165000-26970	SCREW, M10X40	10													
10	1	165000-26020	GEAR	1													
11	1	165000-31970	BEARING	1													
11-1	1	165001-30900	BEARING	1													
12	1	165000-28100	RING, SNAP	1													
13	1	165000-28290	SLEEVE, SPACER	1													
14	1	165000-27730	SHAFT	1													
15	1	165000-27170	SCREW, M18X120	1													
17	2	165000-26040	GEAR ASSY, DRIVE LO	4													
17A	2	165000-28280	SLEEVE, SPACER	1													
18	2	165000-25960	GEAR	1													
19	2	165000-31930	BEARING, BALL	1													
20	2	165000-31940	BEARING, BALL	1													
21	2	165000-28120	RING, SNAP	1													
22	2	165000-27680	JOURNAL, SHAFT	1													
23	1	165000-27040	SCREW, M8X30	4													
24	1	165000-26050	GEAR ASSY, DRIVE UP	1													
24A	2	165000-28280	SLEEVE, SPACER	1													
25	2	165000-25990	GEAR	1													
26	2	165000-31930	BEARING, BALL	1													
27	2	165000-31940	BEARING, BALL	1													
28	2	165000-28120	RING, SNAP	1													
29	2	165000-27680	JOURNAL, SHAFT	1													
30	1	165000-27040	SCREW, M10X80	4													
31	1	165000-26000	GEAR	1													
32	1	165000-26970	SCREW, M10X40	3													
36	1	165001-26750		4													
38	2	165000-28560	TAPPET ASSY, VALVE	4													
39	2	165000-28540	TAPPET	2													
40	2	165000-28530	TAPPET, ROLLER	1													
41	2	165000-28550	TAPPET	2													
41-1	2	165001-26770	TAPPET, ROLLER	2												N	
(A=E*****)																	
42	2	165000-27590	CIRCLIP, 19MM	4													
44	1	165000-51070	SCREW, M10X60	16													
45	1	165000-51010	ROD, PUSH	16													



Remarks
(1)-E6509751
(2)E6509752-

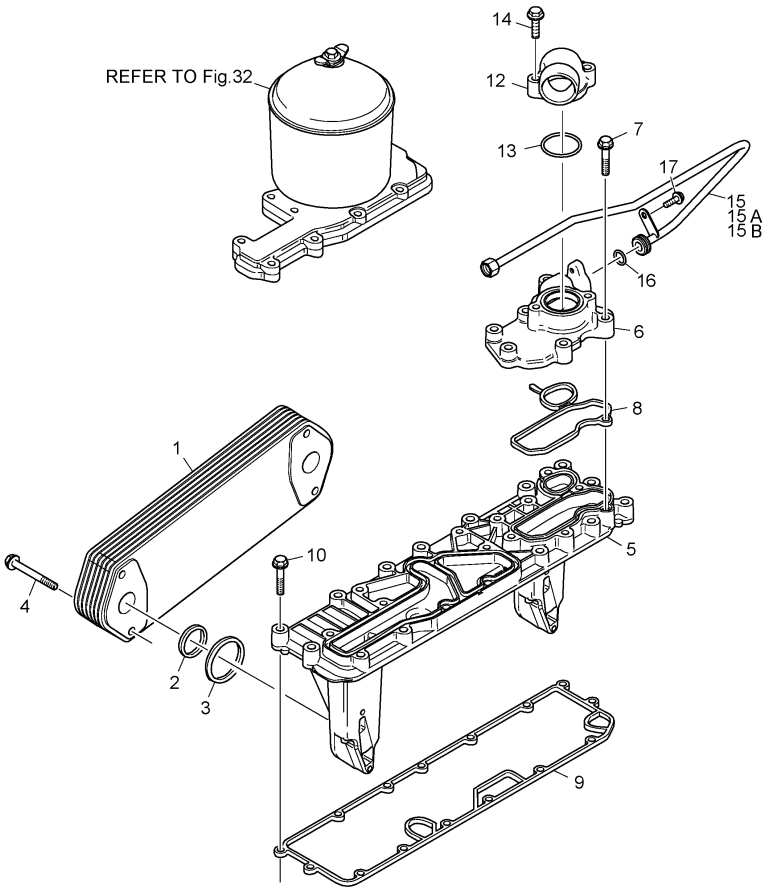
[illegible]

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
(C)Copy Rights YANMAR CO.,LTD.



REF.	LEV.	PARTS NO.	DESCRIPTION	(A)=8SY-STP		(D)=		(E)=		I R
				(B)=	(C)=	(C)	(D)	(E)	(F)	
1	1	165000-25060	PUMP ASSY, OIL	1						
2	1	165000-29760	PIPE	1						
3	1	165000-51140	PIPE, INTAKE	1						
4	1	165000-24570	O-RING, 29.2X3	2						
5	1	165000-31520	PLATE, COVER	1						
6	1	165000-27360	SCREW, M8X30	13						
7	1	165000-27430	SCREW, M8X60	4						
8	1	165000-27360	SCREW, M8X30	2						
9	1	165000-27360	SCREW, M8X30	4						
10	1	165000-24550	O-RING, 21X4	1						

Fig.30. OIL COOLER

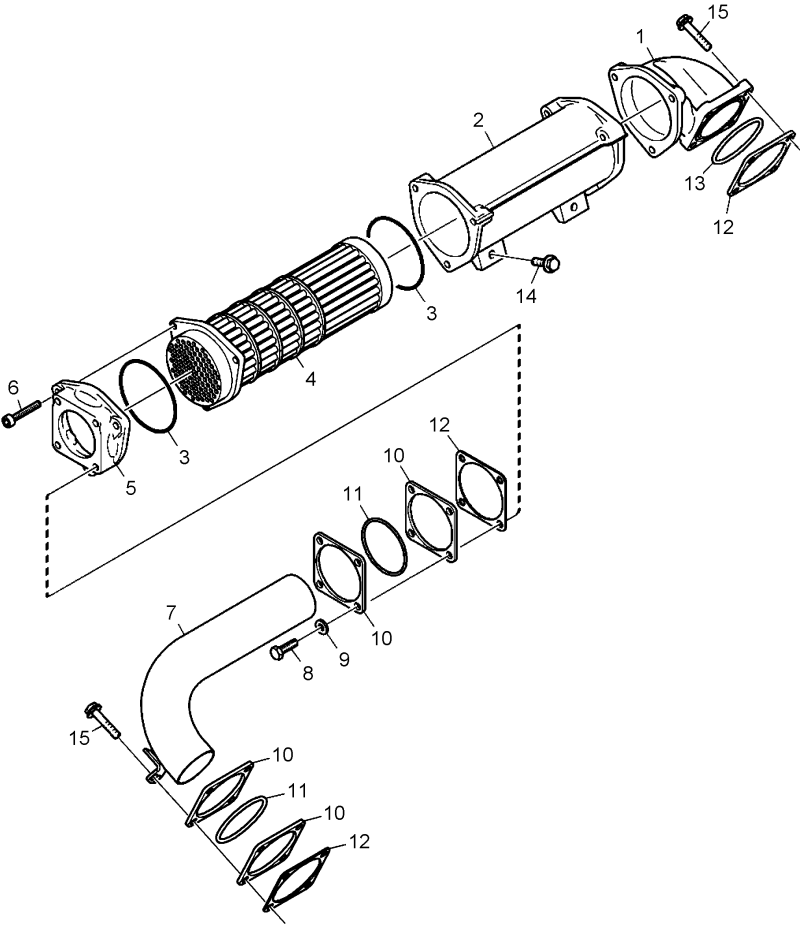


133545

Remarks
(1)E6510613-
(2)-E6510612

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-50760	COOLER, OIL	1							
2	1	165000-25450	GASKET	2							
3	1	165000-25290	GASKET	2							
4	1	165000-27460	SCREW, M8X70	4							
5	1	165000-25650	COVER ASSY	1							
5-1	1	165001-31300	COVER, OIL COOLER	1						N	
(A=E*****)											
6	1	165000-25780	COVER	1							
7	1	165000-27400	SCREW, M8X40	7							
8	1	165000-25280	GASKET	1							
9	1	165000-25310	GASKET	1							
10	1	165000-27400	SCREW, M8X40	12							
12	1	165000-31240	FLANGE	1							
13	1	165000-24630	O-RING, 44.2X3	1							
14	1	165000-27400	SCREW, M8X40	2							
15	1	165000-50260	CLAMP	1							
15A	1	165000-51190	PIPE, VENTILATION	1							1
15B	1	165000-29520	PIPE	1							2
16	1	165000-24430	O-RING	1							
17	1	165000-27240	SCREW, M6X16	1							

Fig.31. OIL COOLER

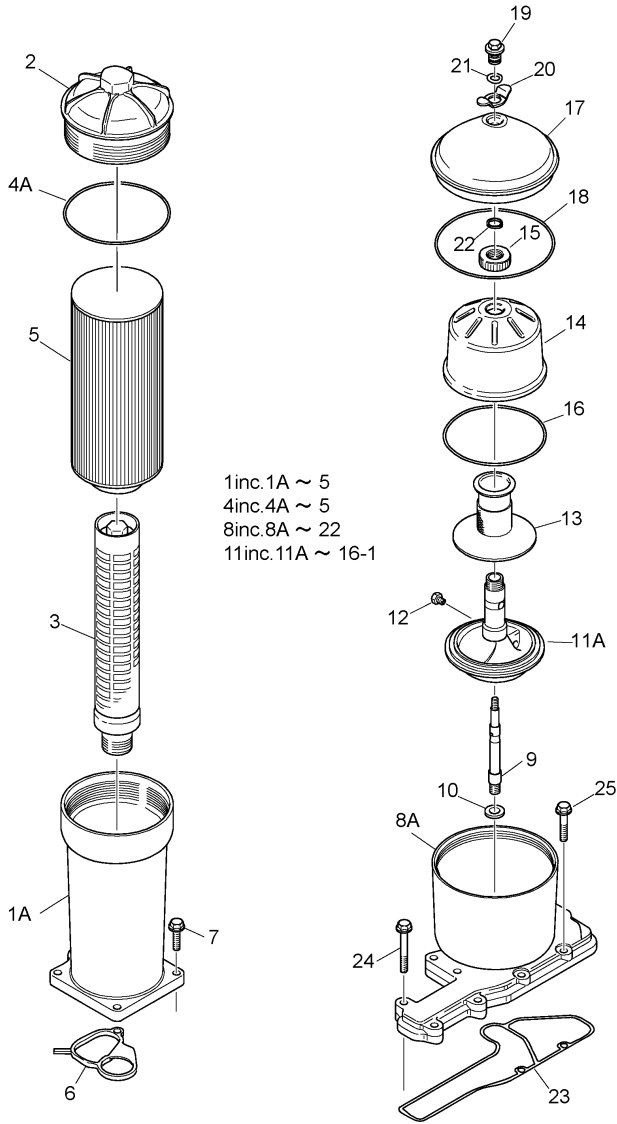


OCR10-G57801 31. OIL COOLER

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-25020	CORE, COOLER	1							
3	2	165001-31370	O-RING	2							
4	2	165001-31380	COOLER CORE	1							
7	1	165000-28700	TUBE	1							
8	1	165000-27390	SCREW, M8X35	12							
9	1	165000-33150	WASHER, 8.4X16X1.6	12							
10	1	165000-31250	FLANGE	4							
11	1	165000-32630	RING	2							
12	1	165000-25330	GASKET	3							
13	1	165000-24650	O-RING, 64.5X3	1							
14	1	165000-27300	SCREW, M8X20	2							
15	1	165000-27400	SCREW, M8X40	8							W

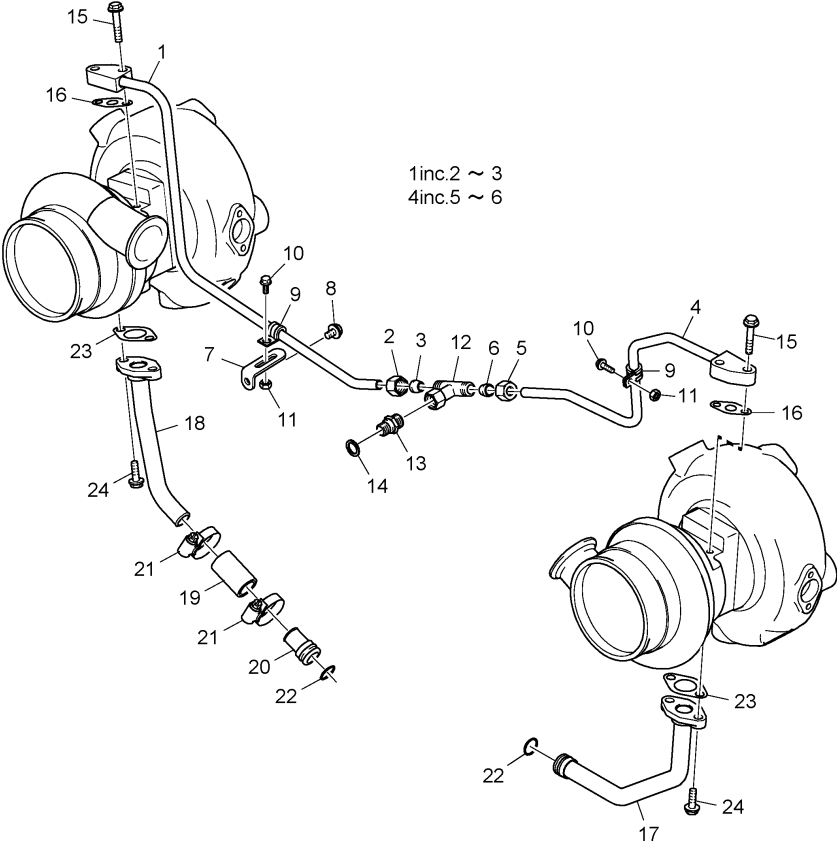
(A=E*****)

Fig.32. CENTRIFUGAL OIL CLEANER



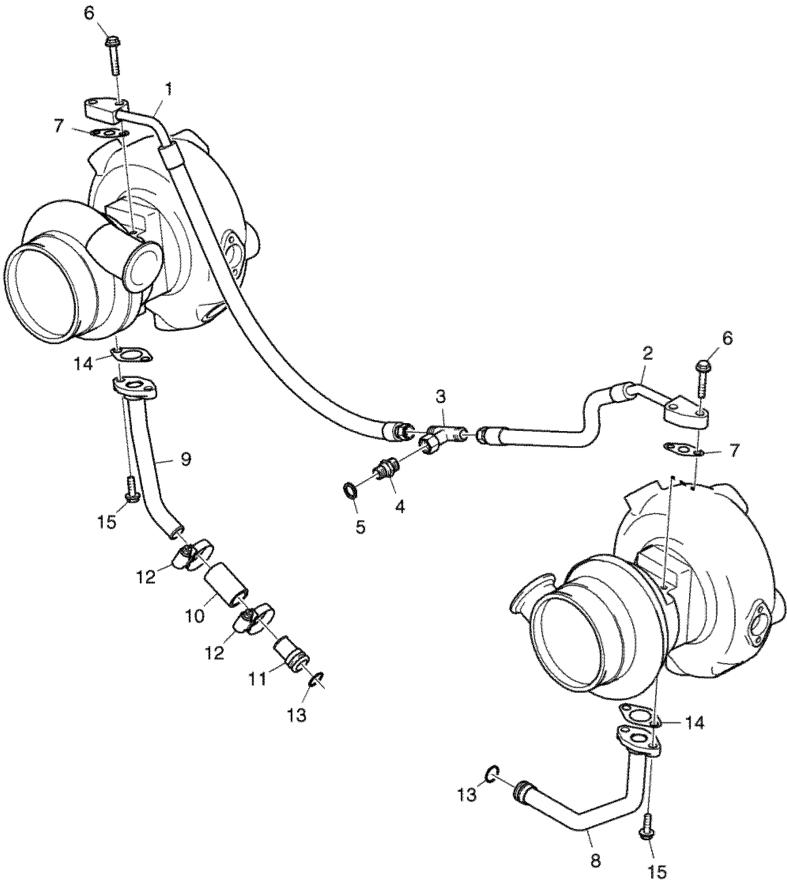
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-29840	HOUSING ASSY, FILTER	1							
2	2	165000-25770	COVER	1							
3	2	165000-28760	TUBE	1							
4	2	165000-24990	ELEMENT ASSY, FILTER	1							
4A	3	165000-24480	O-RING	1							
5	3	165000-24980	ELEMENT, FILTER	1							
5-1	3	165001-31290	FILTER, OIL	1							N
(A=E*****)											
6	1	165000-25400	GASKET	1							
7	1	165000-27360	SCREW, M8X30	4							
8	1	165000-25030	CLEANER ASSY, OIL	1							
9	2	165000-27710	SHAFT	1							
10	2	165000-32930	WASHER	1							
11	2	165000-32760	ROTOR ASSY	1							
11A	3	165000-32750	ROTOR	1							
12	3	165000-29130	NOZZLE	1							
13	3	165000-28080	STRAINER	1							
14	3	165000-31890	BOWL, ROTOR	1							
15	3	165000-28830	NUT	1							
16	3	165000-24390	O-RING	1							
16-1	3	165001-31500	O-RING	1							N
(A=E*****)											
17	2	165000-25720	COVER	1							
18	2	165000-24400	O-RING	1							
18-1	2	165001-30930	O-RING	1							N
(A=E*****)											
19	2	165000-32860	NUT, LOCK	1							
20	2	165000-32960	WASHER	1							
21	2	165000-24380	O-RING	1							
22	2	165000-28090	RING, SNAP	1							
23	1	165000-25270	GASKET	1							
24	1	165000-27430	SCREW, M8X60	4							
25	1	165000-27400	SCREW, M8X40	5							

Fig.33. LUBRICATION, TURBINE(E6500001-)



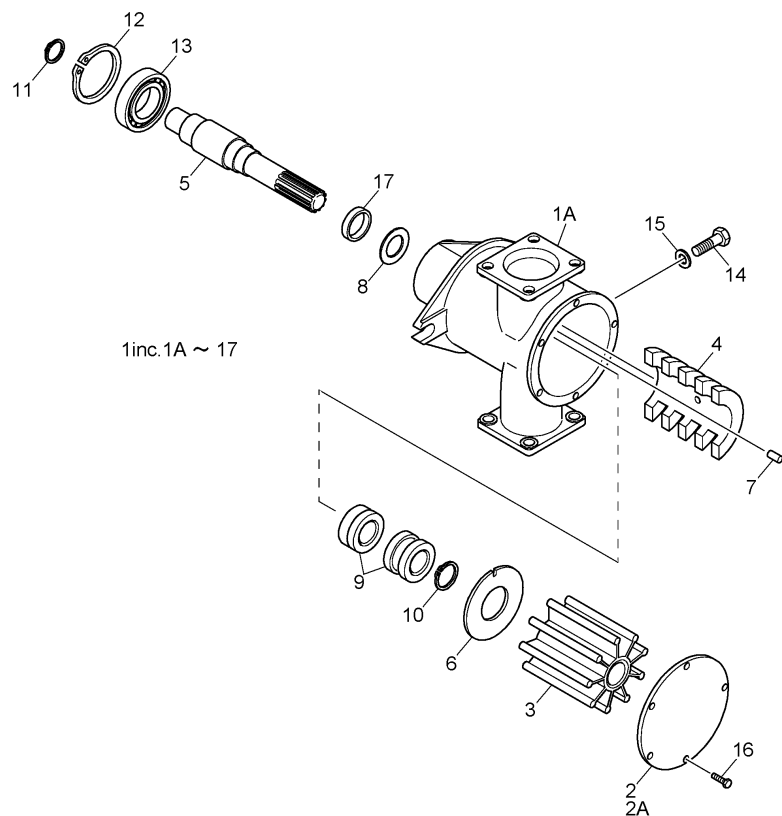
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-50350	PIPE, DELIVERY	1							
1-1	1	165001-26780	PIPE, DELIVERY	1						N	
(A=E*****)											
2	2	165000-32490	NUT, UNION M12	1							
3	2	165000-26130	FERRULE, 12	1							
4	1	165000-50360	PIPE, DELIVERY	1							
4-1	1	165001-26790	PIPE, DELIVERY	1						N	
(A=E*****)											
5	2	165000-32490	NUT, UNION M12	1							
6	2	165000-26130	FERRULE, 12	1							
7	1	165000-33610	BRACKET, LH	1							
8	1	165000-27290	SCREW, M8X16	1							
9	1	165000-26290	CLAMP, 12MM	2							
10	1	165000-27240	SCREW, M6X16	2							
11	1	165000-29010	NUT, FLANGE M6	2							
12	1	165000-32340	UNION, T	1							
13	1	165000-37740	UNION, STRAIGHT	1							
14	1	165000-48960	GASKET	1							
15	1	165000-27380	SCREW	4							
15-1	1	165000-27360	SCREW, M8X30	4						N	
(A=E*****)											
16	1	165000-25420	GASKET	2							
17	1	165000-50730	PIPE, OIL RETURN	1							
18	1	165000-50740	PIPE, OIL RETURN	1							
19	1	165000-50650	HOSE	1							
20	1	165000-50750	PIPE, OIL RETURN	1							
21	1	165000-50680	CLAMP, HOSE	2							
22	1	165000-24560	O-RING, 22X3	2							
23	1	165000-34830	GASKET	2							
24	1	165000-27360	SCREW, M8X30	4							

Fig.34. LUBRICATION, TURBINE(E1045448-)



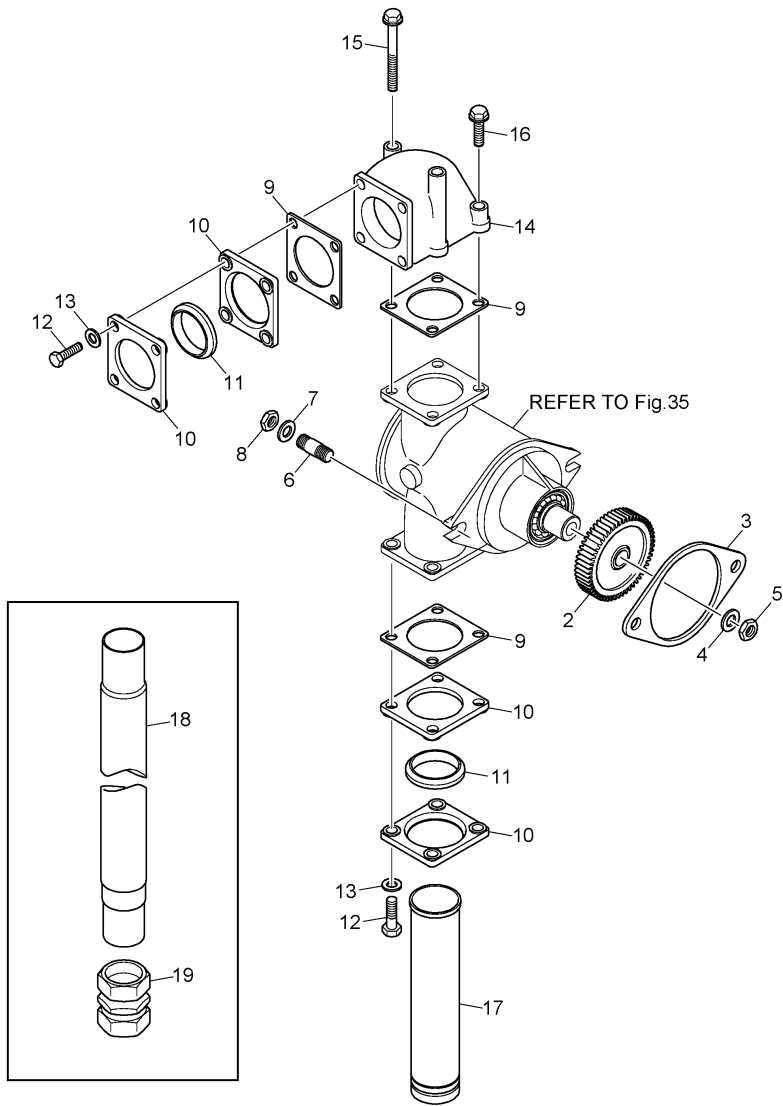
0CR10-G57801 34. LUBRICATION, TURBINE(E1045448-)

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-26780	HOSE	1							
2	1	165001-26790	HOSE	1							
3	1	165000-32340	UNION, T	1							
4	1	165000-37740	UNION, STRAIGHT	1							
5	1	165000-48960	GASKET	1							
6	1	165000-27360	SCREW, M8X30	4							
7	1	165000-25420	GASKET	2							
8	1	165000-50730	PIPE, OIL RETURN	1							
9	1	165000-50740	PIPE, OIL RETURN	1							
10	1	165000-50650	HOSE	1							
11	1	165000-50750	PIPE, OIL RETURN	1							
12	1	165000-50680	CLAMP, HOSE	2							
13	1	165000-24560	O-RING, 22X3	2							
14	1	165000-34830	GASKET	2							
15	1	165000-27360	SCREW, M8X30	4							



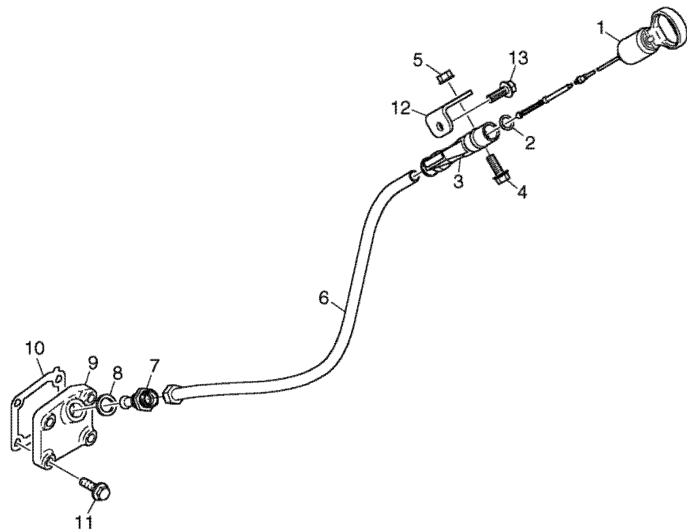
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-35240	HOUSING, PUMP	1							
2	1	165000-35350	COVER	1							
2A	1	165000-34630	GASKET	1							
3	1	165000-35270	IMPELLER	1							
4	1	165000-33840	CAM	1							
5	1	165000-37150	SHAFT	1							
6	1	165000-38020	WASHER, WEAR	1							
7	1	165000-90200	PIN	1							
8	1	165000-37870	WASHER	1							
9	1	165000-37070	SEAL	1							
10	1	165000-36590	RING, SNAP	1							
11	1	165000-36600	RING, SNAP	2							
12	1	165000-36520	RING, RETAINING	1							
13	1	165000-33460	BEARING, BALL	1							
14	1	165000-36700	SCREW	1							
15	1	165000-37880	WASHER	1							
16	1	165000-36710	SCREW	5							
17	1	165000-37060	SEAL	1							

Fig.36. SEA WATER PUMP, MOUNTING



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	1	165000-50590	GEAR	1							
3	1	165000-34750	GASKET	1							
4	1	165000-51250	WASHER, 23X40	1							
4-1	1	165000-53160	PLATE, SEPARATOR	1						N	
(A=E*****)											
5	1	165000-35560	NUT, M18X1.5	1							
6	1	165000-49620	STUD, M10X45	2							
7	1	165000-33070	WASHER, 10.5X22	2							
8	1	165000-28910	NUT, HEXAGON M10	2							
9	1	165000-25330	GASKET	5							
9-1	1	165000-93530	GASKET	5						N	
(A=E*****)											
10	1	165000-31250	FLANGE	8							
11	1	165000-32630	RING	4							
12	1	165000-27390	SCREW, M8X35	16							
13	1	165000-33150	WASHER, 8.4X16X1.6	8							
14	1	165000-31260	FLANGE	1							
15	1	165000-26620	SCREW, M8X90	2							
16	1	165000-27420	SCREW, M8X55	2							
17	1	165000-37480	TUBE	2							
18	1	165000-35150	HOSE	2							
19	1	165000-34100	CLUTCH	2							

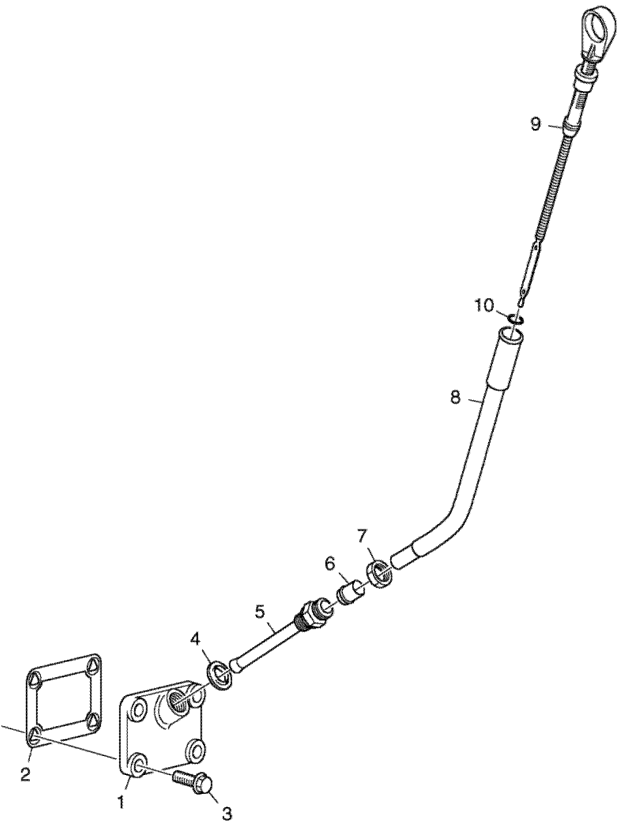
Fig.37. OIL DIPSTICK, RH



OCR10-G57801 37. OIL DIPSTICK, RH

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-36240	OIL DIPSTICK	1							
2	1	165000-24370	O-RING	1							
3	1	165000-31900	HOLDER, DIPSTICK F	1							
4	1	165000-27330	SCREW, M8X25	1							
5	1	165000-29040	NUT, FLANGE M8	1							
6	1	165001-36250	PIPE	1							
7	1	165001-36260	UNION ASSY	1							
8	1	165000-25590	GASKET, 16.5X19.9	1							
9	1	165000-29780	PIPE, FLANGE	1							
10	1	165000-25320	GASKET	1							
11	1	165000-27360	SCREW, M8X30	4							
12	1	165001-36270	BRACKET	1							
13	1	165000-27330	SCREW, M8X25	1							

Fig.38. OIL DIPSTICK, LH



OCR10-G57801 38. OIL DIPSTICK, LH

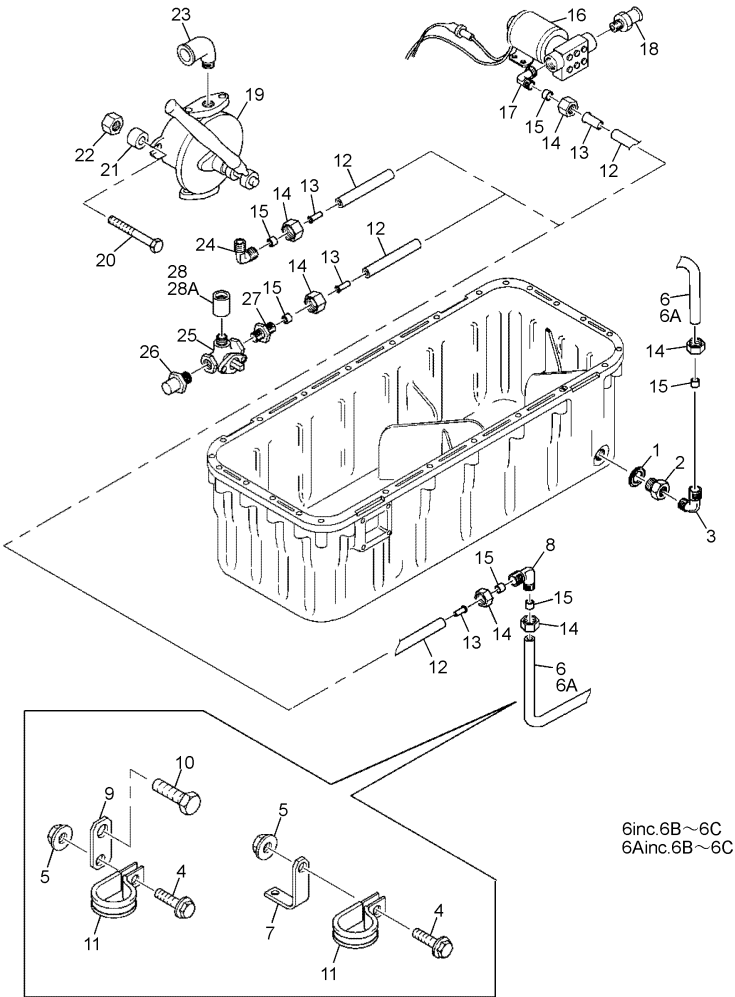
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-29780	PIPE, FLANGE	1							
2	1	165000-25320	GASKET	1							
3	1	165000-27360	SCREW, M8X30	4							
4	1	165000-27780	SEAL	1							
5	1	165000-32270	UNION, STRAIGHT	1							
6	1	165000-26130	FERRULE, 12	1							
7	1	165000-32490	NUT, UNION M12	1							
8	1	165000-29280	PIPE, DIPSTICK LH	1							
9	1	165000-26450	DIPSTICK, LH	1							
10	2	165000-24370	O-RING	1							



(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-29780	PIPE, FLANGE	1							
2	1	165000-25320	GASKET	1							
3	1	165000-27360	SCREW, M8X30	4							
4	1	165000-27780	SEAL	1							
5	1	165000-32270	UNION, STRAIGHT	1							
6	1	165000-50700	CONNECTOR, INSEAT	1							
7	1	165000-29270	PIPE, DIPSTICK FRONT	1							
8	1	165000-31760	CLIP, HOSE	1							
9	1	165000-31900	HOLDER, DIPSTICK F	1							
10	1	165000-26440	DIPSTICK, FRONT	1							
11	1	165000-24370	O-RING	1							
12	1	165000-26190	CLAMP, 12	1							
13	1	165000-50070	BRACKET	1							
14	1	165000-27300	SCREW, M8X20	1							
15	1	165000-29040	NUT, FLANGE M8	1							

Fig.40. OIL DISCHARGE (OPTION)



6inc.6B~6C
6Ainc.6B~6C

137053

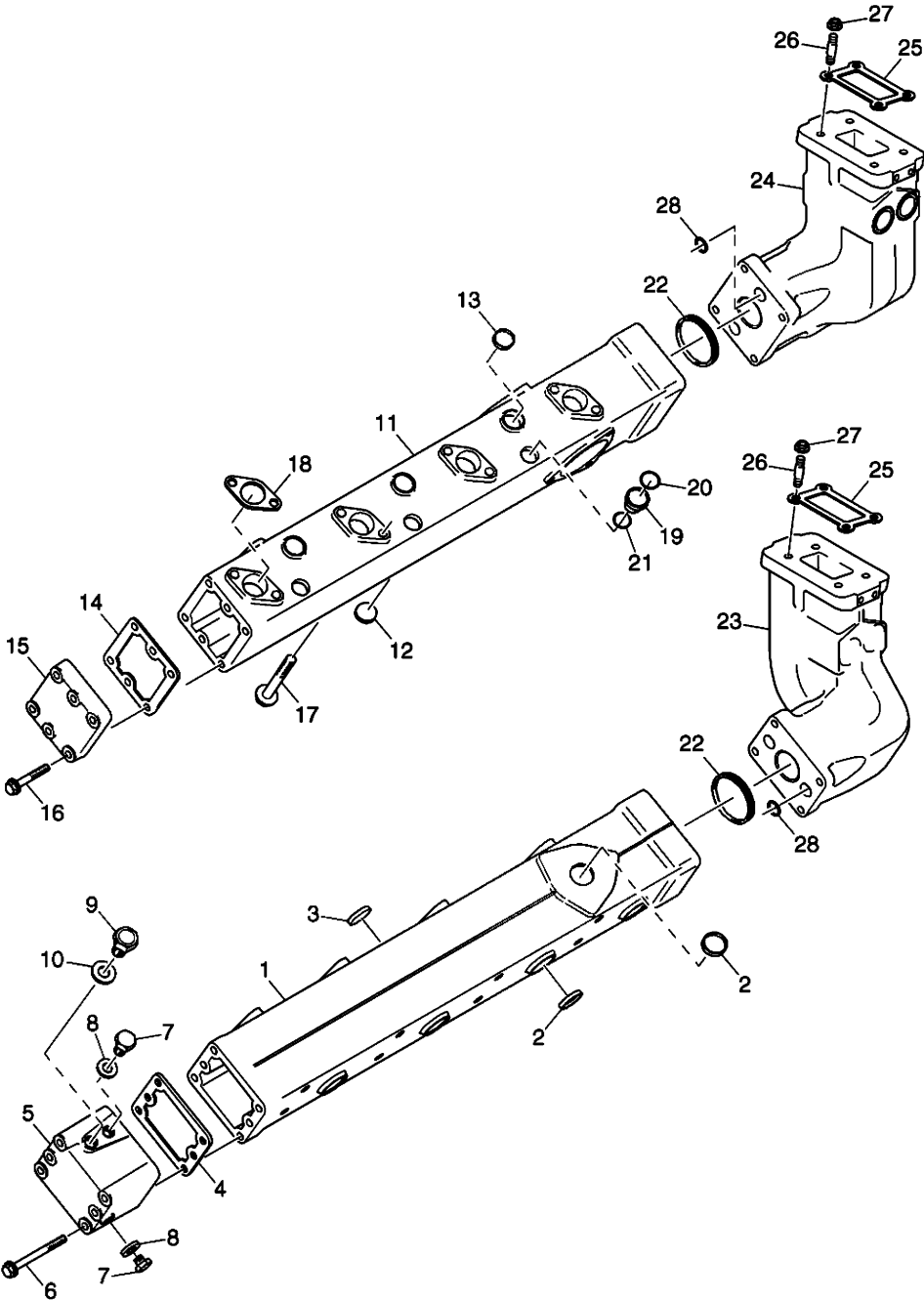
Remarks
(1)LH
(2)RH
(3)UNIT OF METER

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-25620	GASKET, 24.3X28.9	1							
1-1	1	165000-59430	WASHER, SEALING	1							
(A=E*****)											
2	1	165000-32200	UNION	1							
3	1	165000-32430	UNION, ELBOW	1							
4	1	165000-27240	SCREW, M6X16	2							
5	1	165000-29010	NUT, FLANGE M6	2							
6	1	165000-50850	PIPE	1							1
6-1	1	165001-39320	PIPE	1							1
(A=E*****)											
6A	1	165001-50860	PIPE	1							2
(A=E*****)											
6B	2	165000-28310	SLEEVE, INSERT	1							
6C	2	165000-32490	NUT, UNION M12	1							
7	1	165000-50050	BRACKET	1							
8	1	165000-32450	UNION, ELBOW	1							
9	1	165000-50060	BRACKET	1							
10	1	165000-27070	SCREW, M12X30	1							
11	1	165000-26290	CLAMP, 12MM	2							
12	1	165000-29220	PIPE, 12X1.5	999							3
13	1	165000-28310	SLEEVE, INSERT	2							
14	1	165000-32490	NUT, UNION M12	2							
15	1	165000-26130	FERRULE, 12	2							
16	1	165000-31980	PUMP	1							
17	1	165000-32410	UNION, ELBOW	1							
18	1	165000-32170	UNION	1							
19	1	165000-32020	PUMP ASSY, HAND	1							W
(A=E*****)											
20	1	165000-27000	SCREW, M10X60	2							W
(A=E*****)											
21	1	165000-28190	SPACER, L=29MM	2							W
(A=E*****)											
22	1	165000-28870	NUT, FLANGE M10	2							W
(A=E*****)											
23	1	165000-32390	UNION, ELBOW	1							W
(A=E*****)											
24	1	165000-32400	UNION, ELBOW	1							W
(A=E*****)											
25	1	165000-73740	TAP, DRAIN	1							W
(A=E*****)											
26	1	165000-32310	UNION, STRAIGHT	1							W
(A=E*****)											
27	1	165000-32280	UNION, STRAIGHT	1							W
(A=E*****)											
28	1	165000-26600	CONNECTOR	1							W
(A=E*****)											
28A	1	165000-26590	CONNECTOR	1							W
(A=E*****)											

Fig.41. EXHAUST MANIFOLD



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-29160	MANIFOLD ASSY, EXH.L	1							
I 1A	2	165000-29200	MANIFOLD, EXHAUST LH	1							
2	2	165000-30800	PLUG, CORE	6							
3	2	165000-30730	PLUG, CORE	4							
4	2	165000-25300	GASKET	1							
5	2	165000-25850	COVER	1							
6	2	165000-27260	SCREW, M8X100	6							
7	2	165000-31370	PLUG	2							
8	2	165000-27920	RING, SEALING	2							
9	2	165000-30910	PLUG, M12X1.5X9	1							
10	2	165000-27770	SEAL	1							
11	1	165000-29180	MANIFOLD ASSY, EXH.R	1							
I 11A	2	165000-29210	MANIFOLD, EXHAUST RH	1							
12	2	165000-30800	PLUG, CORE	6							
I 13	2	165000-30730	PLUG, CORE	4							K
14	2	165000-25300	GASKET	1							
15	2	165000-25840	COVER	1							
16	2	165000-27300	SCREW, M8X25	6							
16-1	2	165000-27330	SCREW, M8X25	6							N
(A=E*****)											
17	1	165000-26900	SCREW, M10X130	16							
18	1	165000-25410	GASKET, EXHAUST	8							
19	1	165000-31910	HOLDER	8							
20	1	165000-24600	O-RING, 35X5	8							
21	1	165000-24620	O-RING, 39.2X3	8							
22	1	165000-25140	GASKET	2							
23	1	165000-50410	MANIFOLD, EXHAUST	1							
I 23A	2	165000-30730	PLUG, CORE	5							
I 23B	1	165000-50520	SCREW, M12X40	4							
I 24	1	165000-50420	MANIFOLD, EXHAUST	1							
I 24A	2	165000-30730	PLUG, CORE	4							
I 24B	1	165000-50520	SCREW, M12X40	4							
25	1	165000-34650	GASKET	2							
26	1	165000-28020	STUD, M10X45	8							
27	1	165000-35580	NUT, LOCK	8							
28	1	165000-24590	O-RING, 32.2X3	4							W
(A=E*****)											

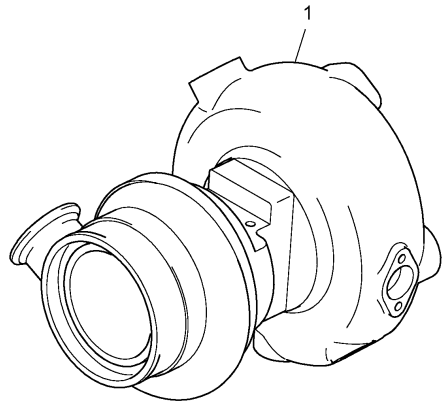
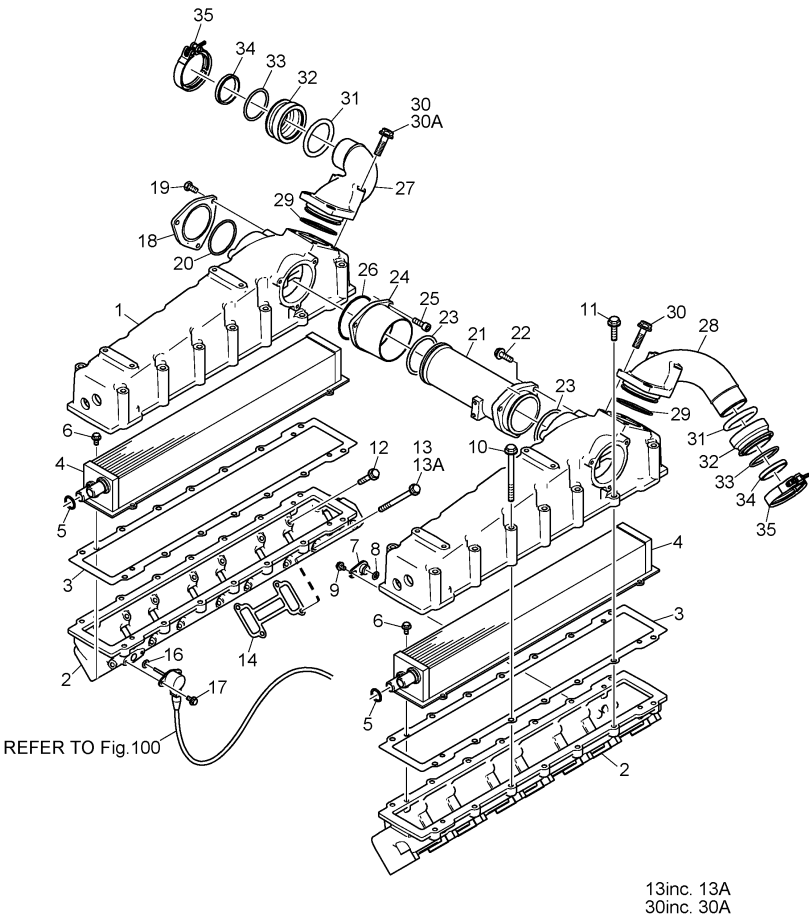
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Fig.43. INTAKE MANIFOLD

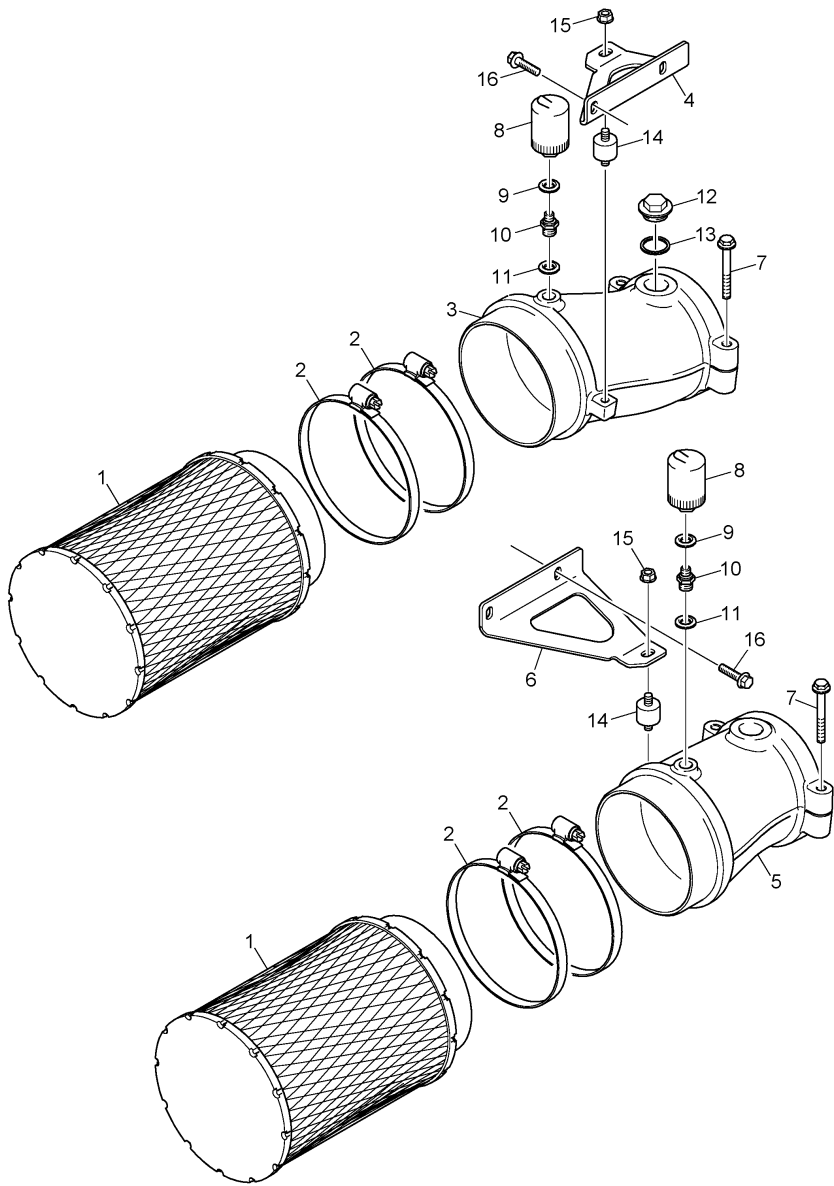


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Remarks
(1)E -1056460
(2)E 1056461-

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-32080	MANIFOLD, INTAKE	2							
2	1	165000-32070	MANIFOLD, INTAKE	2							
3	1	165000-25150	GASKET	2							
4	1	165000-24920	COOLER, AIR CHARGE	2							
5	1	165000-27940	RING, SEALING	2							
6	1	165000-27290	SCREW, M8X16	8							
7	1	165000-30780	PLUG	1							
8	1	165000-24520	O-RING, 11.3X2.4	2							
9	1	165000-27220	SCREW, M6X14	4							
10	1	165000-26890	SCREW, M10X110	24							
11	1	165000-26990	SCREW, M10X40	4							
12	1	165000-27400	SCREW, M8X40	14							
13	1	165000-27260	SCREW, M8X100	16							1
13-1	1	165000-27430	SCREW, M8X60	16						N	2
(A=E*****)											
I 13A	1	165000-27430	SCREW	2							1
13A-1	1	165000-27440	SCREW, M8X60	2						N	2
(A=E*****)											
14	1	165000-25380	GASKET, INTAKE	8							
16	1	165000-24520	O-RING, 11.3X2.4	1							
17	1	165000-27220	SCREW, M6X14	2							
18	1	165000-31310	FLANGE	2							
19	1	165000-27300	SCREW, M8X20	6							
20	1	165000-24690	O-RING, 99.5X3	2							
21	1	165000-29710	PIPE, AIR	1							
22	1	165000-27360	SCREW, M8X30	3							
23	1	165000-24670	O-RING, 84.1X5.7	2							
24	1	165000-29790	PIPE, FLANGE	1							
25	1	165000-27350	SCREW, M8X25	3							
26	1	165000-24690	O-RING, 99.5X3	1							
27	1	165000-50230	PIPE, AIR CHARGE	1							
28	1	165000-50240	PIPE, AIR CHARGE	1							
29	1	165000-24660	O-RING, 72.9X5.7	2							
30	1	165000-27380	SCREW, M8X35	4							
I 30A	1	165000-27480	SCREW, M8X80	4							
31	1	165000-50790	O-RING	2							
32	1	165000-51160	TUBE	2							
33	1	165000-24650	O-RING, 64.5X3	2							
34	1	165000-51100	SPACER	2							
35	1	165000-51180	V-CLAMP	2							

OCR10-G57801
Fig.44. AIR CLEANER

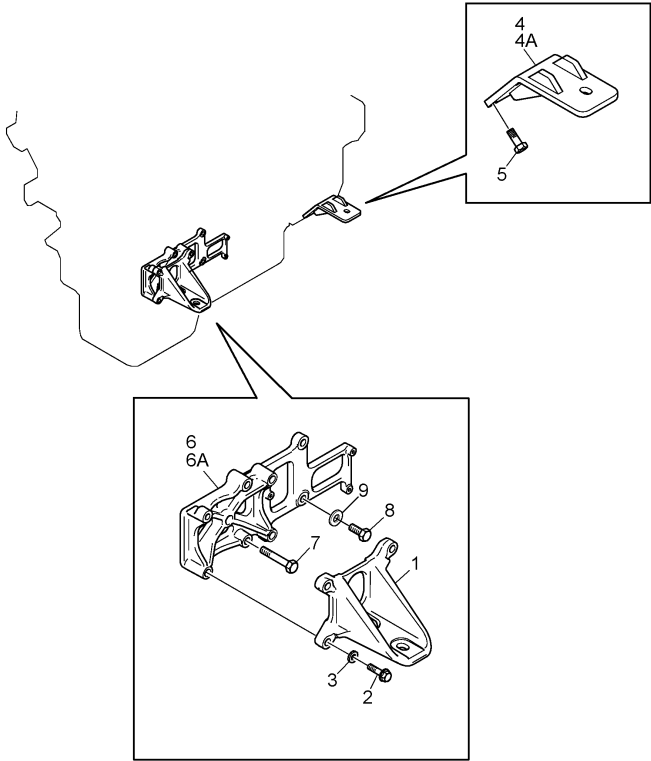


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OCR10-G57801 44. AIR CLEANER

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-48740	AIR FILTER	2							
2	1	165000-34080	CLAMP, HOSE	4							
3	1	165000-50870	PIPE	1							
4	1	165000-50080	BRACKET	1							
5	1	165000-50880	PIPE	1							
6	1	165000-50090	BRACKET	1							
7	1	165000-27410	SCREW, M8X50	4							
8	1	165000-24890	INDICATOR, PRESSURE	2							
9	1	165000-27750	SEAL	2							
10	1	165000-32190	UNION	2							
11	1	165000-37080	SEAL	2							
12	1	165000-30950	PLUG, M26X1.5X9	1							
13	1	165000-25630	GASKET, 26.3X30.9	1							
14	1	165000-51210	INSULATOR	2							
14-1	1	165001-31340	INSULATOR, VIBRATION	2							N
(A=E*****)											
15	1	165000-29040	NUT, FLANGE M8	2							
16	1	165000-27330	SCREW, M8X25	4							

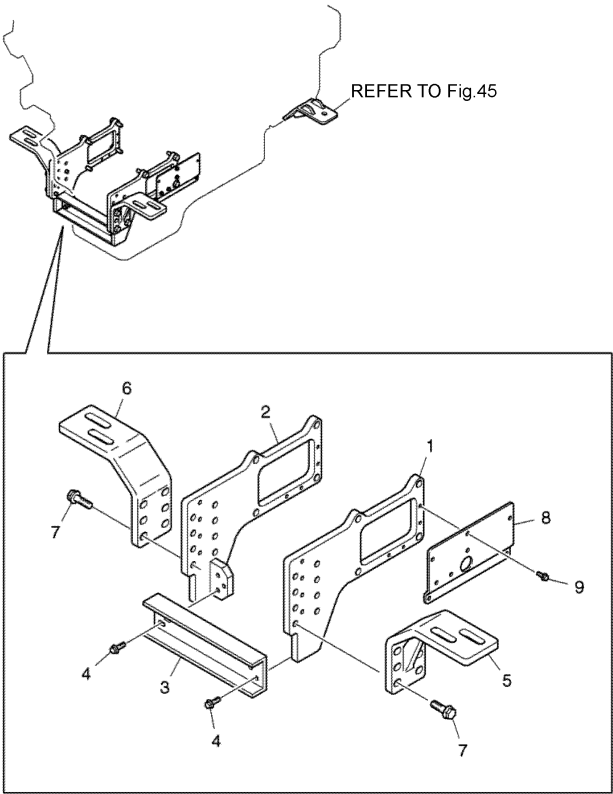
Fig.45. ENGINE SUSPENSION



0CR10-G57801 45. ENGINE SUSPENSION

				(A)=8SY-STP (B)= (C)=	(D)= (E)= (F)=						
REF.	LEV.	PARTS NO.	DESCRIPTION	(A)	(B)	Q'TY (C) (D)		(E)	(F)	I	R
1	1	165000-31190	BRACKET	2							
2	1	165000-27150	SCREW	8							
3	1	165000-33110	WASHER	8							
I	4	1	165000-50100	BRACKET, LH	1						
	4A	1	165000-50110	BRACKET, RH	1						
	5	1	165000-26690	SCREW	8						
6	1	165000-30990	BRACKET, RH	1							
I	6A	1	165000-31010	BRACKET, RH	1						
I	7	1	165000-27160	SCREW, FLANGE	4					N	
7-1	1	165001-31350	SCREW, FLANGE	4						W	
	(A=E*****)										
8	1	165000-51230	SCREW, M16X60	999						N	1
	(A=E*****)										
8-1	1	165000-27150	SCREW, M16X60	4						W	
	(A=E*****)										
9	1	165000-51230	WASHER	999							1
	(A=E*****)										

Fig.46. ENGINE SUSPENSION, HIGH



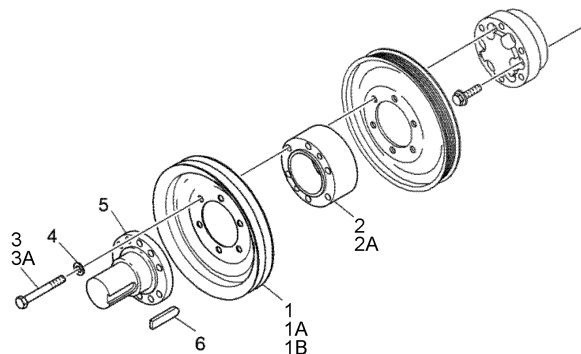
0CR10-G57801 46. ENGINE SUSPENSION, HIGH

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-26800	BRACKET	1							1
2	1	165001-26810	BRACKET	1							2
3	1	165001-26820	BEAM	1							
4	1	165000-26930	SCREW, M10X30	6							
5	1	165001-26830	BRACKET	1							1
6	1	165001-26840	BRACKET	1							2
7	1	165000-37000	SCREW, M16X1.5X50	16							
8	1	165001-26850	BRACKET	1							
9	1	165001-26860	SCREW, FLANGE	4							

146411

Remarks
(1)LH
(2)RH

[illegible]

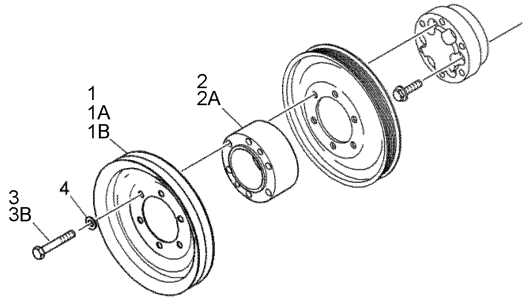


0CR10-G57801 48. POWER TAKE-OFF (EXTRA PULLEY)

(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-31410	PULLEY	1							
1A	1	165000-36300	PULLEY	1							
1B	1	165000-49360	PULLEY	1							
2	1	165000-73750	DRIVER	1							
2A	1	165001-41740	DRIVER	1							
3	1	165000-49460	SCREW, M12X100	6							
3A	1	165001-41750	SCREW, FLANGE	6							
4	1	165000-33091	WASHER, 13X25	7							
5	1	165001-26580	JOURNAL, SHAFT	1							
6	1	165000-25940	KEY	1							

Fig.49. POWER TAKE-OFF (EXTRA PULLEY)



OCR10-G57801 49. POWER TAKE-OFF (EXTRA PULLEY)

(A)=8SY-STP
(B)=
(C)=

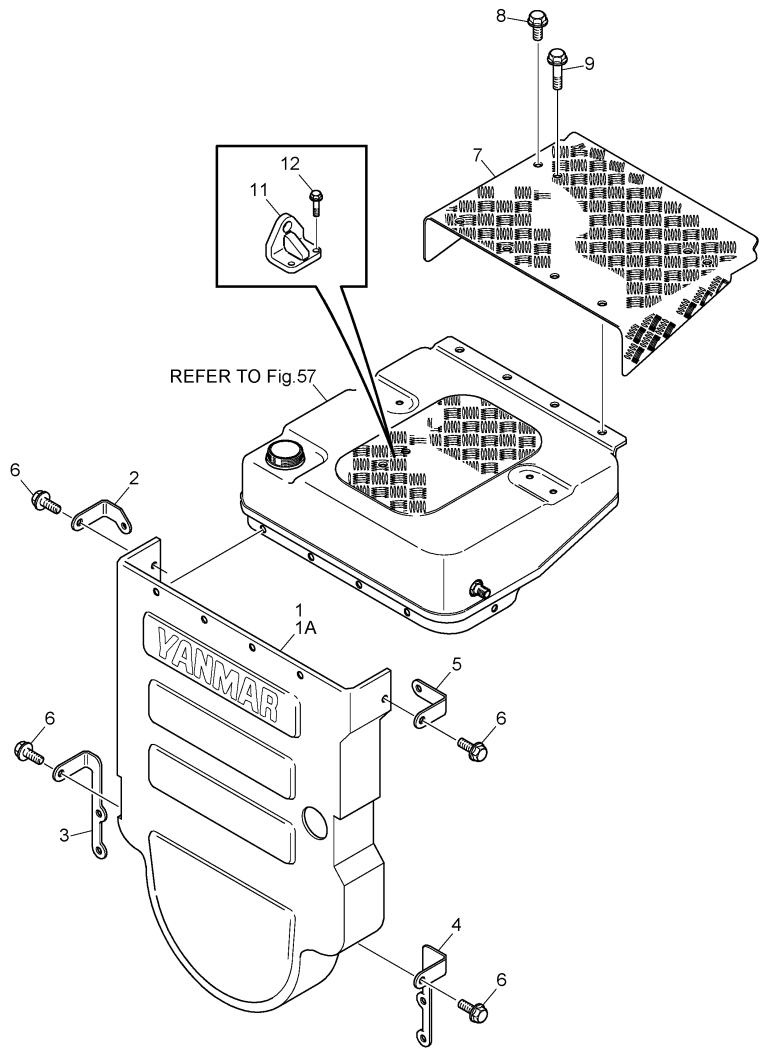
(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-31410	PULLEY	1							
1A	1	165000-36300	PULLEY	1							
1B	1	165000-49360	PULLEY	1							
2	1	165000-31460	PULLEY	1							
2A	1	165001-41740	DRIVER	1							
3	1	165000-50610	SCREW, M12X80	6							
3B	1	165001-41750	SCREW, FLANGE	6							
4	1	165000-33090	WASHER, 13X24	6							



N:Old $\begin{smallmatrix} \text{Yes} \\ \text{No} \end{smallmatrix}$ New, Q:Old $\begin{smallmatrix} \text{No} \\ \text{Yes} \end{smallmatrix}$ New, R:Old $\begin{smallmatrix} \text{Yes} \\ \text{Yes} \end{smallmatrix}$ New, S:Old $\begin{smallmatrix} \text{No} \\ \text{No} \end{smallmatrix}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
(C)Copy Rights YANMAR CO.,LTD.

Fig.51. PROTECTIVE CASING(E6500001-6510612)



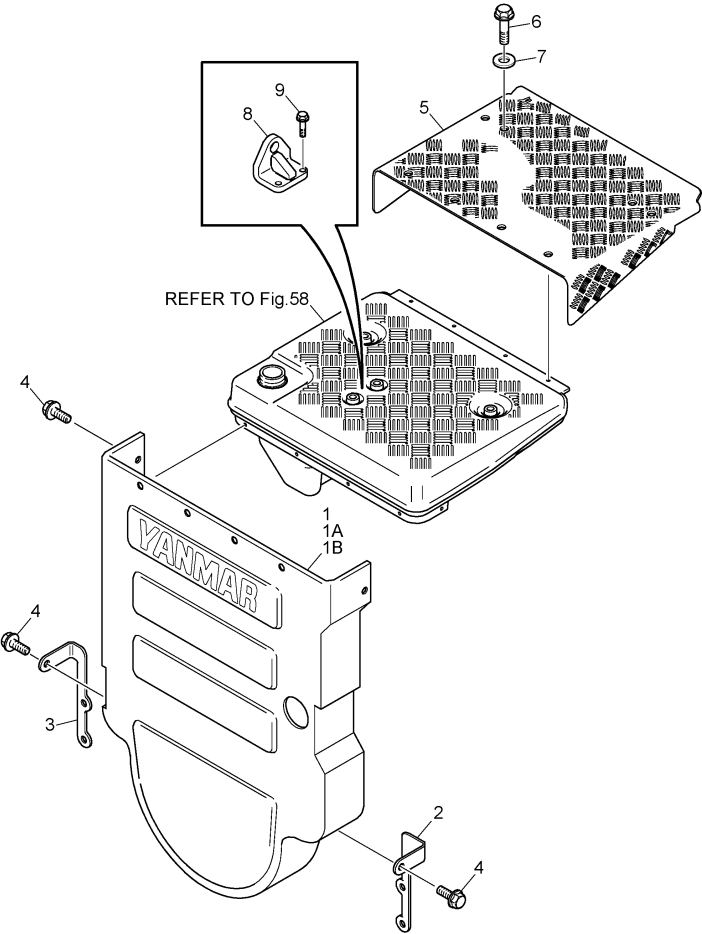
130940

Remarks
ENGINE WITHOUT POWER TAKE-OFF
(1)WHEN THERE IS NO HYDRAULIC PUMP

OCR10-G57801 51. PROTECTIVE CASING(E6500001-6510612)

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-50980	CASE, PROTECTIVE	1							
1A	1	165000-50550	COVER, FRONT	1							1
2	1	165000-31130	BRACKET	1							
3	1	165000-31140	BRACKET	1							
4	1	165000-31150	BRACKET	1							
5	1	165000-31160	BRACKET	1							
6	1	165000-27280	SCREW, M8X14	4							
7	1	165001-26870	CATWALK	1							
8	1	165000-26930	SCREW, M10X30	2							
9	1	165000-27030	SCREW, M10X70	2							
11	1	165000-24740	EYE, LIFTING	1							
12	1	165000-27110	SCREW, M12X50	2							

Fig.52. PROTECTIVE CASING(E6510613-6513510)



136688

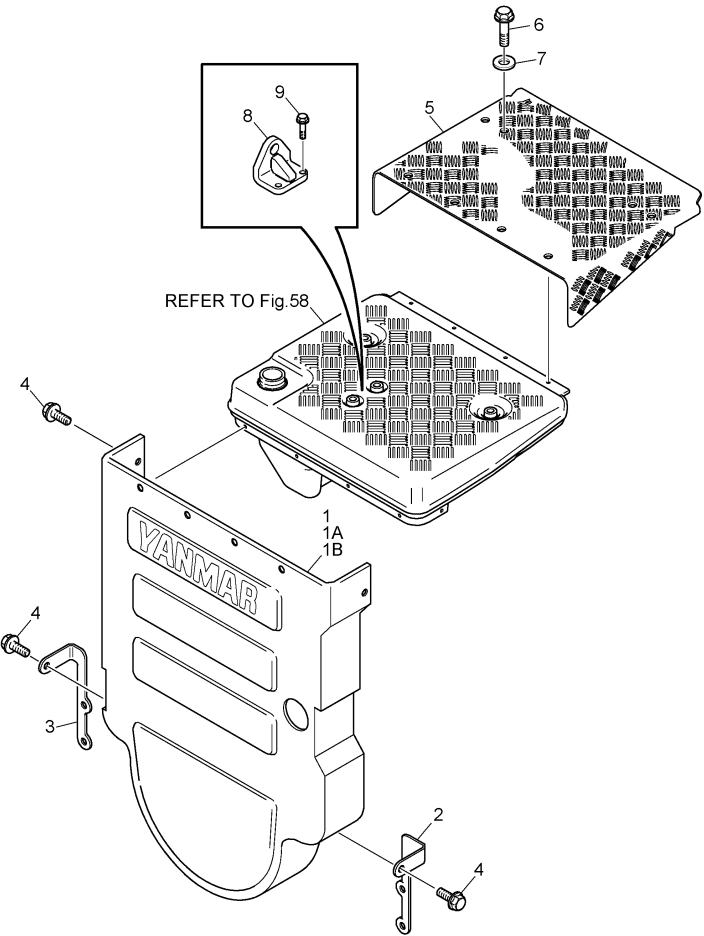
Remarks
ENGINE WITHOUT POWER TAKE-OFF
(1)WHEN THERE IS NO HYDRAULIC PUMP
(2)FRONT MOUNTED HEAT EXCH

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-50980	CASE, PROTECTIVE	1							
1A	1	165000-50550	COVER, FRONT	1							
1B	1	165001-31360	COVER, PROTECTION	1							
2	1	165000-31150	BRACKET	1							
3	1	165000-31140	BRACKET	1							
4	1	165000-27290	SCREW, M8X16	4							
5	1	165001-26870	CATWALK	1							
6	1	165000-27030	SCREW, M10X70	4							
7	1	165000-51110	SPACER	2							
8	1	165000-24740	EYE, LIFTING	1							
9	1	165000-50530	SCREW, M12X100	2							

Fig.53. PROTECTIVE CASING(E1039758-)



136688

Remarks
ENGINE WITHOUT POWER TAKE-OFF
(1)WHEN THERE IS NO HYDRAULIC PUMP
(2)FRONT MOUNTED HEAT EXCH

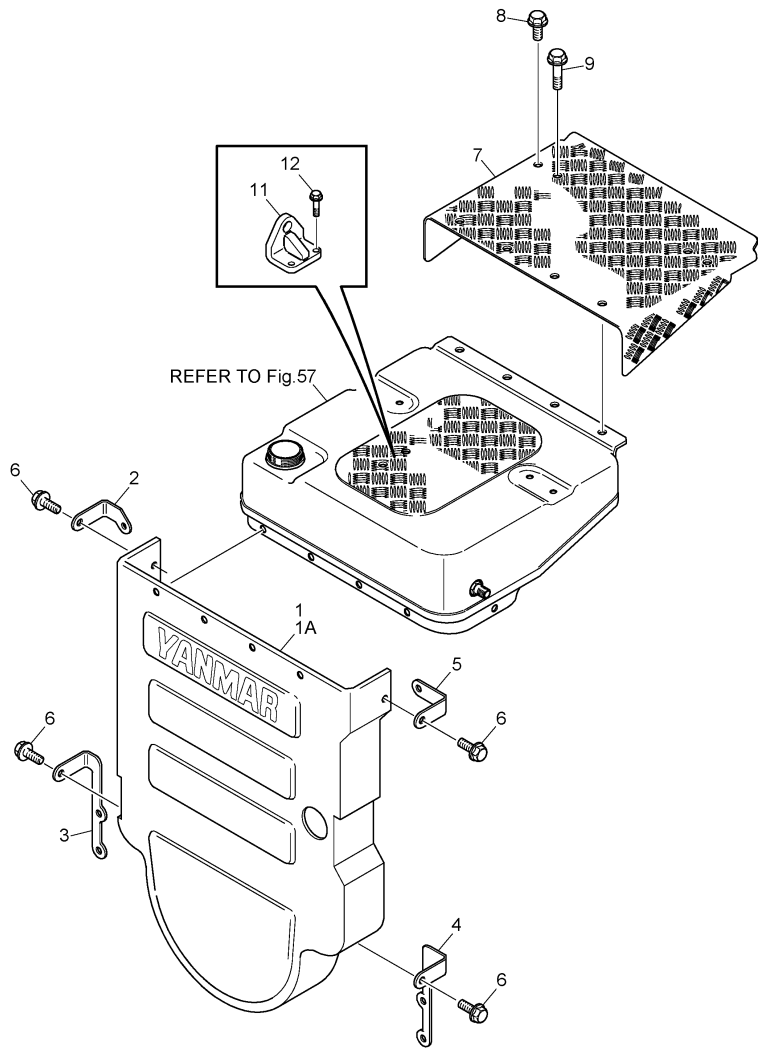
OCR10-G57801 53. PROTECTIVE CASING(E1039758-)

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-50980	CASE, PROTECTIVE	1							
1A	1	165000-50550	COVER, FRONT	1							
1B	1	165001-31360	COVER, PROTECTION	1							
2	1	165000-31150	BRACKET	1							
3	1	165000-31140	BRACKET	1							
4	1	165000-27290	SCREW, M8X16	4							
5	1	165001-26870	CATWALK	1							
6	1	165000-27030	SCREW, M10X70	4							
7	1	165000-51110	SPACER	2							
8	1	165000-24740	EYE, LIFTING	1							
9	1	165000-50530	SCREW, M12X100	2							

Fig.54. PROTECTIVE CASING(E6500001-6510612)



130940

Remarks
ENGINE WITH POWER TAKE-OFF
(1)WHEN THERE IS NO HYDRAULIC PUMP

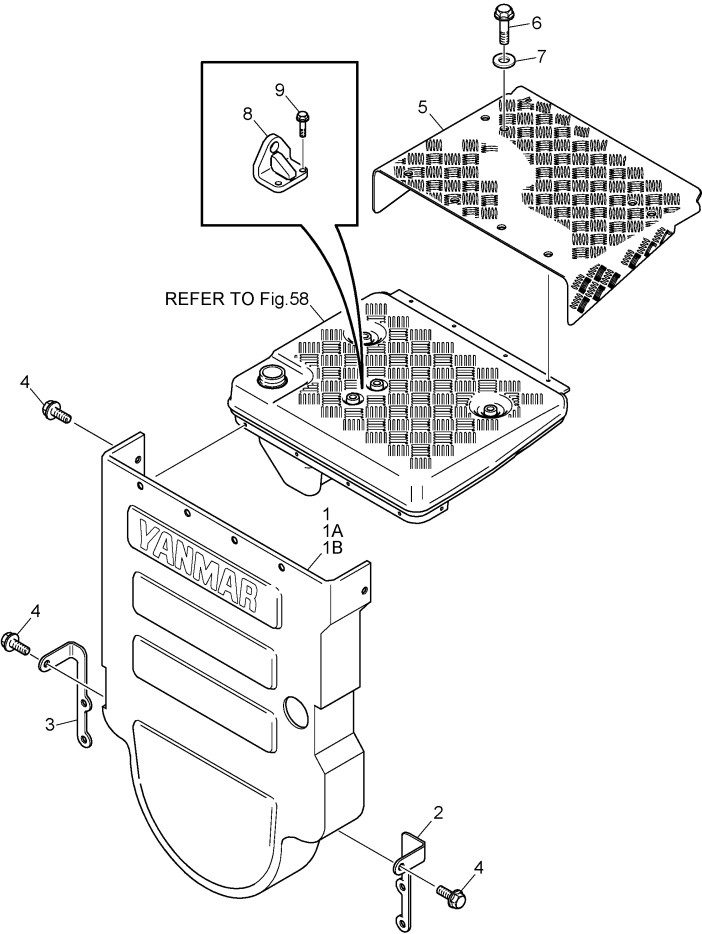
OCR10-G57801 54. PROTECTIVE CASING(E6500001-6510612)

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-50980	CASE, PROTECTIVE	1							
1A	1	165000-50550	COVER, FRONT	1							
1B	1	165001-31360	COVER, PROTECTION	1							
2	1	165000-31150	BRACKET	1							
3	1	165000-31140	BRACKET	1							
4	1	165000-27290	SCREW, M8X16	4							
5	1	165001-26870	CATWALK	1							
6	1	165000-27030	SCREW, M10X70	4							
7	1	165000-51110	SPACER	2							
8	1	165000-24740	EYE, LIFTING	1							
9	1	165000-50530	SCREW, M12X100	2							

Fig.55. EXPANSION TANK(E6510613-6513510)



136688

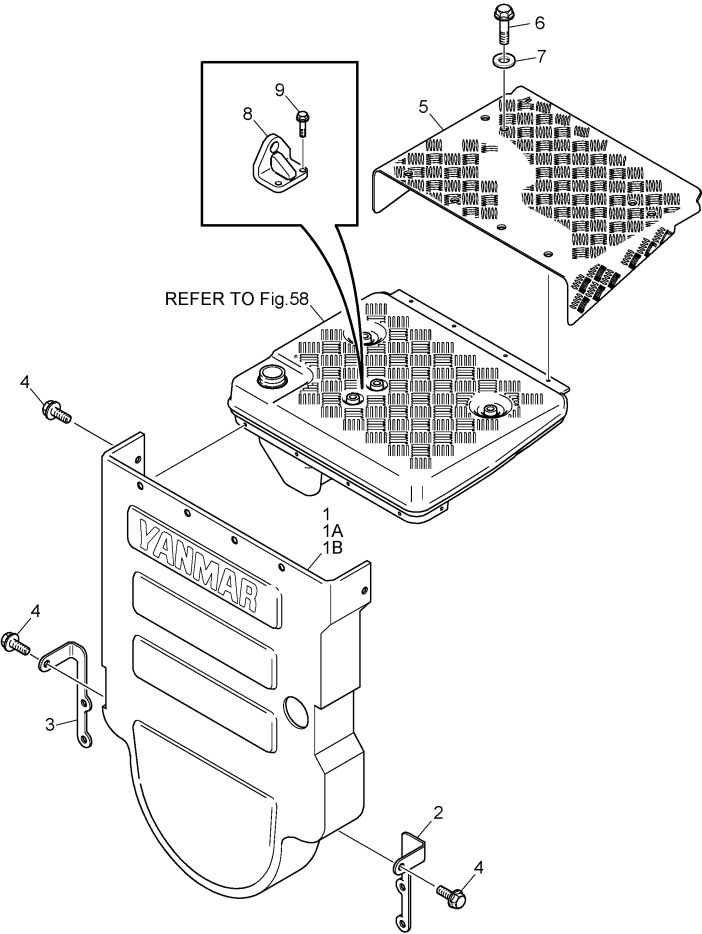
Remarks
ENGINE WITH POWER TAKE-OFF
(1)WHEN THERE IS NO HYDRAULIC PUMP
(2)FRONT MOUNTED HEAT EXCH

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-50980	CASE, PROTECTIVE	1							
1A	1	165000-50550	COVER, FRONT	1							
1B	1	165001-31360	COVER, PROTECTION	1							
2	1	165000-31150	BRACKET	1							
3	1	165000-31140	BRACKET	1							
4	1	165000-27290	SCREW, M8X16	4							
5	1	165001-26870	CATWALK	1							
6	1	165000-27030	SCREW, M10X70	4							
7	1	165000-51110	SPACER	2							
8	1	165000-24740	EYE, LIFTING	1							
9	1	165000-50530	SCREW, M12X100	2							

Fig.56. PROTECTIVE CASING(E1039758-)



136688

Remarks
ENGINE WITH POWER TAKE-OFF
(1)WHEN THERE IS NO HYDRAULIC PUMP
(2)FRONT MOUNTED HEAT EXCH

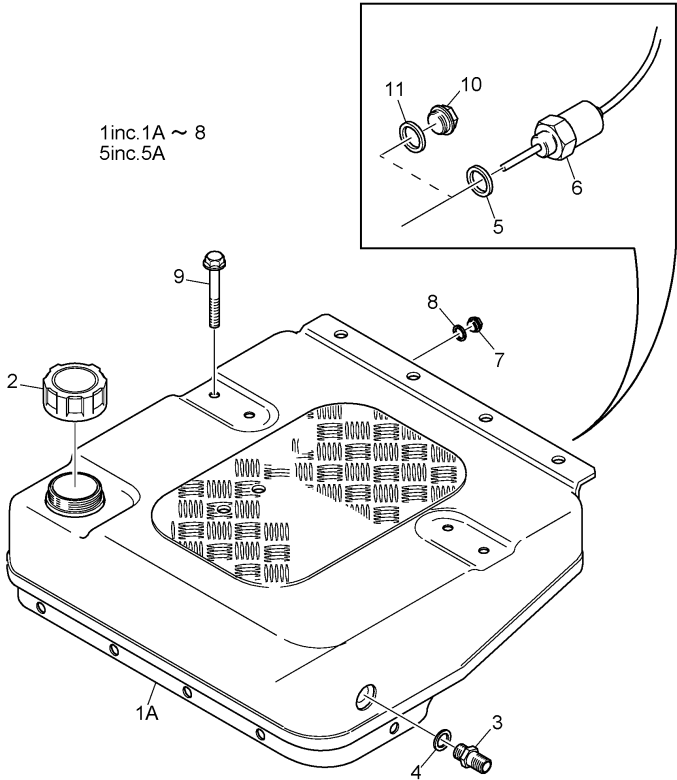
OCR10-G57801 56. PROTECTIVE CASING(E1039758-)

(A)=8SY-STP
(B)=
(C)=

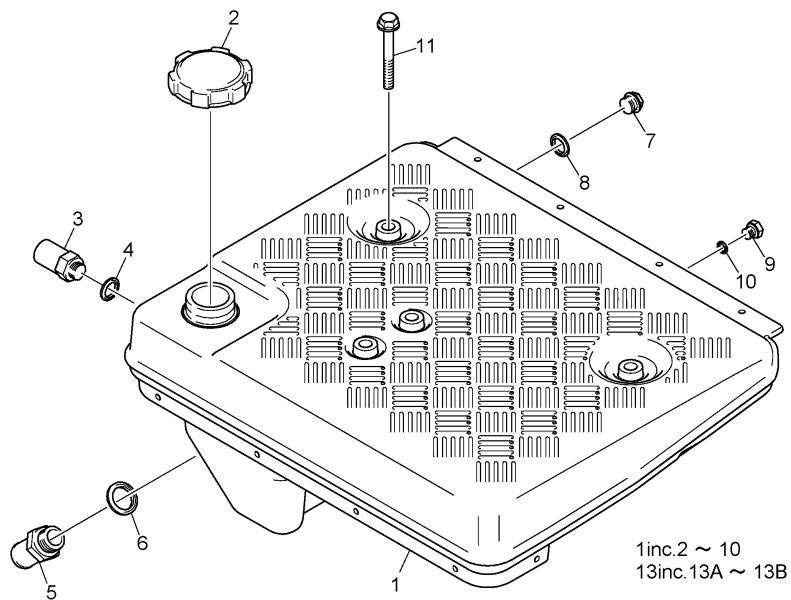
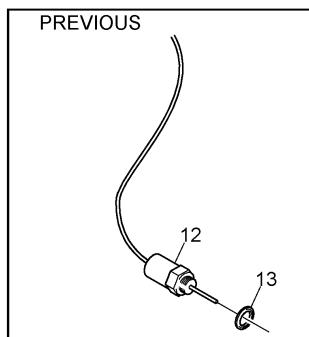
(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-50980	CASE, PROTECTIVE	1							
1A	1	165000-50550	COVER, FRONT	1							
1B	1	165001-31360	COVER, PROTECTION	1							
2	1	165000-31150	BRACKET	1							
3	1	165000-31140	BRACKET	1							
4	1	165000-27290	SCREW, M8X16	4							
5	1	165001-26870	CATWALK	1							
6	1	165000-27030	SCREW, M10X70	4							
7	1	165000-51110	SPACER	2							
8	1	165000-24740	EYE, LIFTING	1							
9	1	165000-50530	SCREW, M12X100	2							

Fig.57. EXPANSION TANK(E6500001-6510612)



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-28620	TANK ASSY, EXPANSION	1							
2	2	165000-26090	CAP, PRESSURE	1							
3	2	165000-32320	UNION, STRAIGHT	2							
4	2	165000-25570	GASKET, 12.2X15X4	2							
5	2	165000-35450	MONITOR, LEVEL	1							1
5-1	2	165000-32110	MONITOR, LEVEL	1						N	1
(A=E*****)											
6	2	165000-27790	SEAL	1							1
7	2	165000-30900	PLUG, M12X1.5X6	1							
8	2	165000-25570	GASKET, 12.2X15X4	1							
9	1	165000-27030	SCREW, M10X70	4							
10	1	165000-30930	PLUG, M18X1.5X9	1							
11	1	165000-25600	GASKET, 18.2X21.9	1							



(A)=8SY-STP
(B)=
(C)=

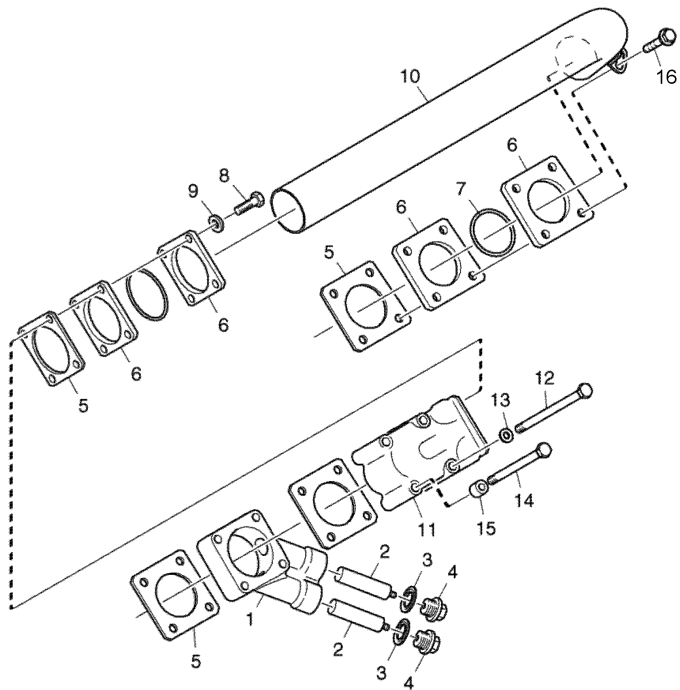
(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-50430	TANK ASSY, EXPANSION	1							
2	2	165000-26090	CAP, PRESSURE	1							
3	2	165000-30930	PLUG, M18X1.5X9	1							
4	2	165000-25600	GASKET, 18.2X21.9	1							
5	2	165000-50690	UNION, HOSE	1							
6	2	165000-37090	SEAL	1							
7	2	165000-51090	PLUG, M18X1.5X9	1							
8	2	165000-27790	SEAL	1							
9	2	165000-30900	PLUG, M12X1.5X6	2							
10	2	165000-25570	GASKET, 12.2X15X4	2							
11	2	165000-27030	SCREW, M10X70	2							
12	2	165000-50720	MONITOR, LEVEL	1						N	1
13	(A=E*****) 2 (A=E*****)	165000-27790	SEAL	1						N	1



N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
(C)Copy Rights YANMAR CO.,LTD.

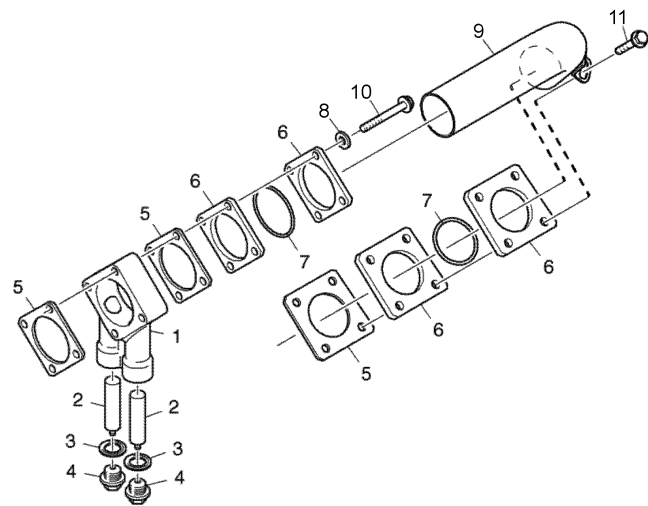
OCR10-G57801
Fig.60. ANODE



OCR10-G57801 60. ANODE

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-26880	FLANGE	1							
2	1	165000-73000	ANODE, SACRIFICIAL	2							
3	1	165000-27920	RING, SEALING	2							
4	1	165000-31370	PLUG	2							
5	1	165000-93530	GASKET	4							
6	1	165000-31250	FLANGE	4							
7	1	165000-32630	RING	2							
8	1	165000-27390	SCREW, M8X35	4							
9	1	165000-33150	WASHER, 8.4X16X1.6	4							
10	1	165001-26890	PIPE	1							
11	1	165000-31260	FLANGE	1							
12	1	165001-26900	SCREW, FLANGE	2							
13	1	165000-37920	WASHER	2							
14	1	165000-36750	SCREW, M8X90	2							
15	1	165001-26910	SLEEVE, SPACING	2							
16	1	165000-27400	SCREW, M8X40	4							

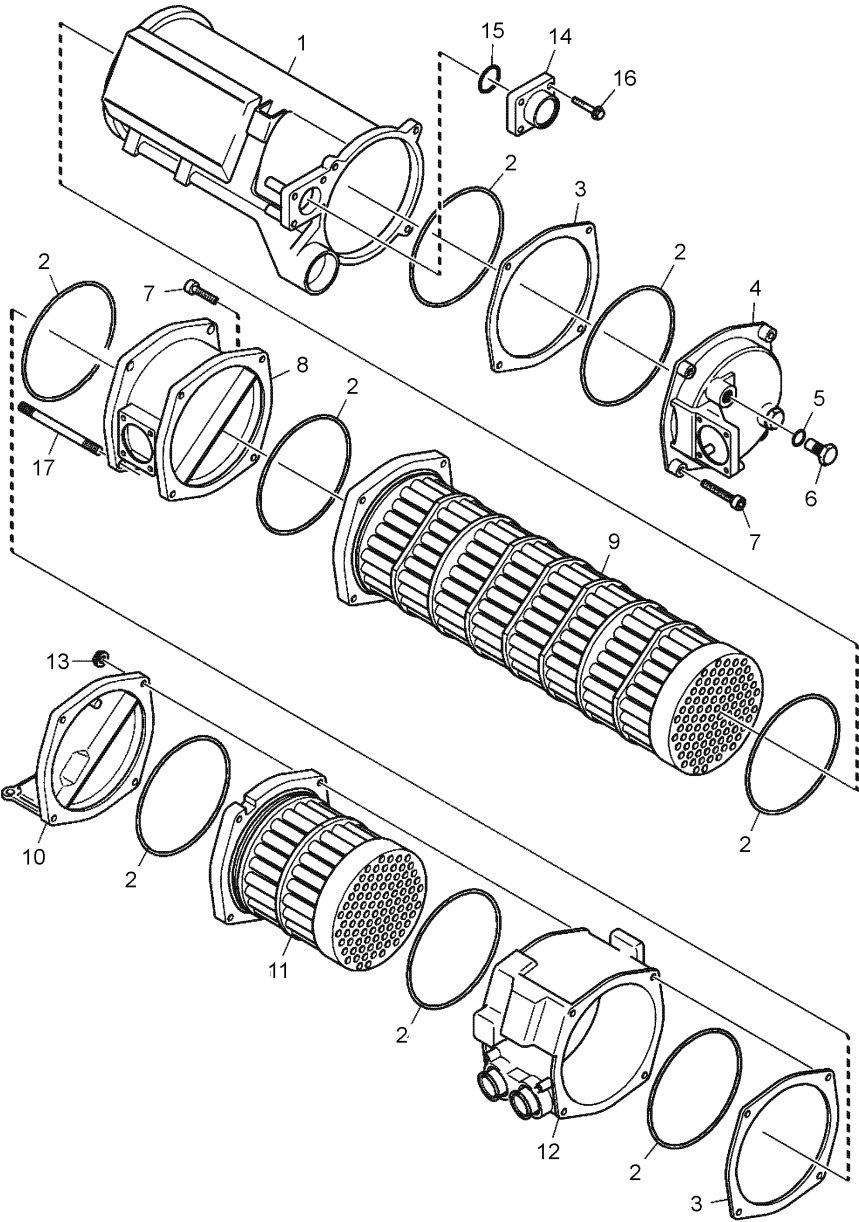
OCR10-G57801
Fig.61. ANODE



OCR10-G57801 61. ANODE

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-26880	FLANGE	1							
2	1	165000-73000	ANODE, SACRIFICIAL	2							
3	1	165000-27920	RING, SEALING	2							
4	1	165000-31370	PLUG	2							
5	1	165000-93530	GASKET	3							
6	1	165000-31250	FLANGE	4							
7	1	165000-32630	RING	2							
8	1	165000-33150	WASHER, 8.4X16X1.6	4							
9	1	165001-26920	PIPE	1							
10	1	165000-27460	SCREW, M8X70	4							
11	1	165000-27400	SCREW, M8X40	4							

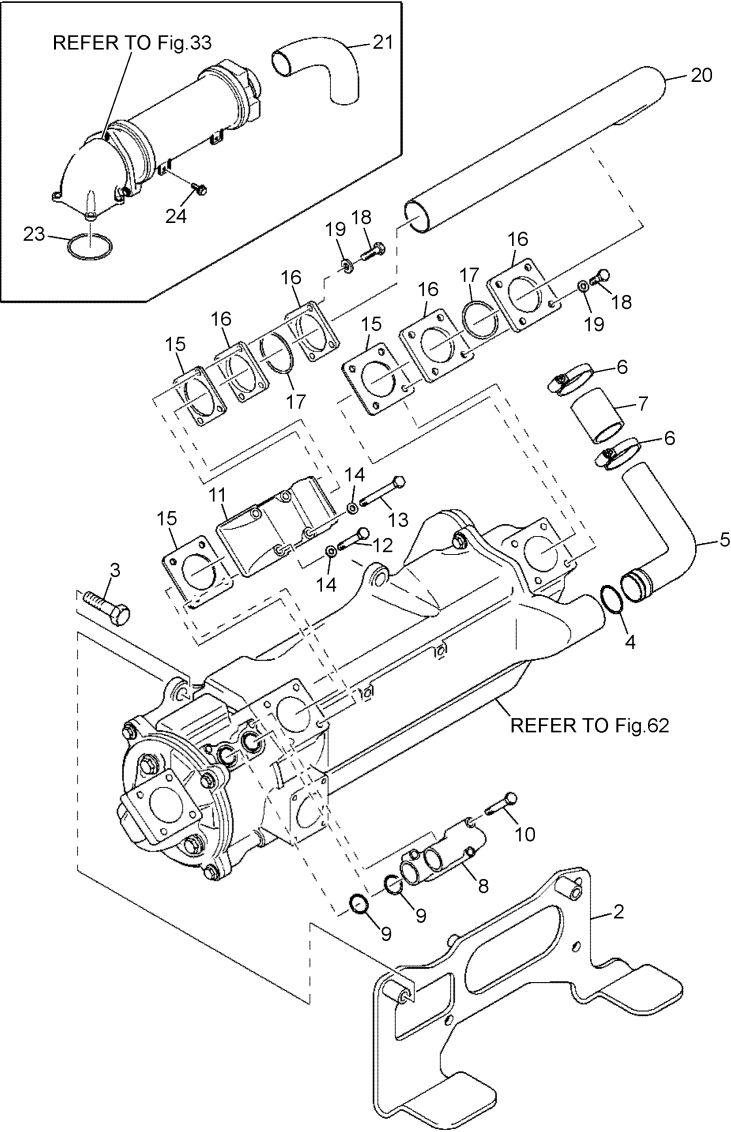
Fig.62. HEAT EXCHANGER



Remarks
(1)THE ENGINE NO. MUST BE SPECIFIED
WHEN ORDERING

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
I	1	165000-30430	EXCHANGER ASSY, HEAT	1							
	1A	2	165001-41680	HEAT EXCHANG HOUSING	1						
	2	2	165000-50800	O-RING	8						
	3	2	165001-41690	WASHER, SPACING	2						
	4	2	165001-41700	HEAT EXCHANGER COVER	1						
I	5	2	165000-51020	REPAIR KIT	1						
	5-1	3	165000-25600	GASKET, 18.2X21.9	4					N	
	(A=E*****)										
	5A	3	165000-51240	WASHER	4						
	6	3	165000-50940	PLUG	4						
I	6-1	3	165000-51090	PLUG, M18X1.5X9	4					N	
	(A=E*****)										
	7	2	165000-50620	SCREW, SOCKET M8X35	8						
	8	2	165001-41710	HEAT EXCHANG HOUSING	1						
	9	2	165001-26930	CORE, HEAT EXCHANGER	1						
I	10	2	165001-41720	HEAT EXCHANGER COVER	1						
	11	2	165001-26940	CORE, HEAT EXCHANGER	1						
	12	2	165001-41730	HEAT EXCHANG HOUSING	1						
	13	2	165000-29040	NUT, FLANGE M8	4						
	14	2	165000-50480	FLANGE	1						
I	15	2	165000-50810	O-RING	1						
	16	2	165000-27360	SCREW, M8X30	4						
	17	2	165001-26950	STUD	4					W	
	(A=E*****)										

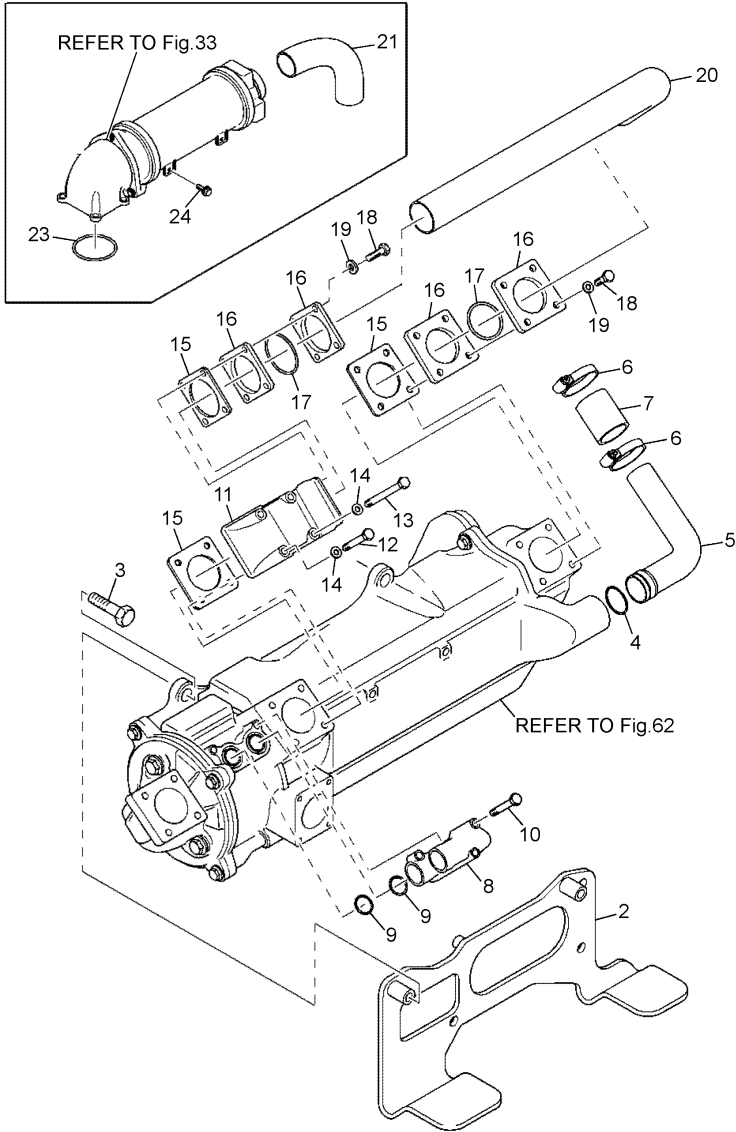
Fig.63. HEAT EXCHANGER, MOUNTING(E6500001-6513510)



130998

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	1	165000-50130	BRACKET	1							
3	1	165000-27060	SCREW, M12X130	4							
4	1	165000-24410	O-RING	1							
5	1	165000-28690	TUBE	1							
6	1	165000-31850	CLAMP, HOSE	2							
7	1	165000-31650	HOSE	1							
8	1	165000-31300	FLANGE	1							
9	1	165000-24600	O-RING, 35X5	2							
10	1	165000-27430	SCREW, M8X60	3							
11	1	165000-31260	FLANGE	1							
12	1	165000-27420	SCREW, M8X55	2							
13	1	165000-26620	SCREW, M8X90	2							
14	1	165000-33150	WASHER, 8.4X16X1.6	4							
15	1	165000-93530	GASKET	3							
16	1	165000-31250	FLANGE	6							
17	1	165000-32630	RING	3							
18	1	165000-27390	SCREW, M8X35	16							
19	1	165000-33150	WASHER, 8.4X16X1.6	20							
20	1	165000-28680	TUBE	1							
21	1	165000-28700	TUBE	1							
23	1	165000-24650	O-RING, 64.5X3	1							
24	1	165000-27300	SCREW, M8X20	2							

Fig.64. HEAT EXCHANGER, MOUNTING(E1039758-1044970)



130998

(A)=8SY-STP
(B)=
(C)=

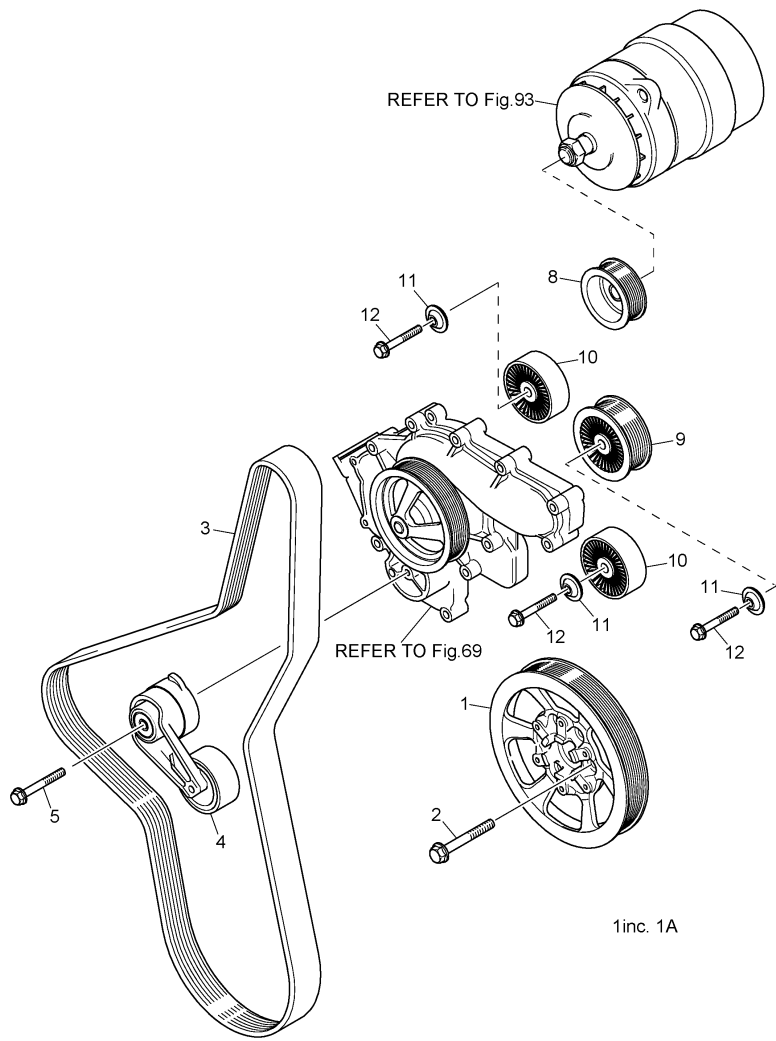
(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	1	165000-50130	BRACKET	1							
3	1	165000-27060	SCREW, M12X130	4							
4	1	165000-24410	O-RING	1							
5	1	165000-28690	TUBE	1							
6	1	165000-31850	CLAMP, HOSE	2							
7	1	165000-31650	HOSE	1							
8	1	165000-31300	FLANGE	1							
9	1	165000-24600	O-RING, 35X5	2							
10	1	165000-27430	SCREW, M8X60	3							
11	1	165000-31260	FLANGE	1							
12	1	165000-27420	SCREW, M8X55	2							
13	1	165000-26620	SCREW, M8X90	2							
14	1	165000-33150	WASHER, 8.4X16X1.6	4							
15	1	165000-93530	GASKET	3							
16	1	165000-31250	FLANGE	6							
17	1	165000-32630	RING	3							
18	1	165000-27390	SCREW, M8X35	8							
19	1	165000-33150	WASHER, 8.4X16X1.6	12							
20	1	165000-28680	TUBE	1							
21	1	165000-28700	TUBE	1							
23	1	165000-24650	O-RING, 64.5X3	1							
24	1	165000-27300	SCREW, M8X20	2							
25	1	165001-26960	BRACKET	1							
26	1	165000-27400	SCREW, M8X40	8							



N:Old $\begin{matrix} \text{Yes} \\ \text{No} \end{matrix}$ New, Q:Old $\begin{matrix} \text{No} \\ \text{Yes} \end{matrix}$ New, R:Old $\begin{matrix} \text{Yes} \\ \text{Yes} \end{matrix}$ New, S:Old $\begin{matrix} \text{No} \\ \text{No} \end{matrix}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
(C)Copy Rights YANMAR CO.,LTD.

Fig.66. BELT TRANSMISSION, ENGINE WIT

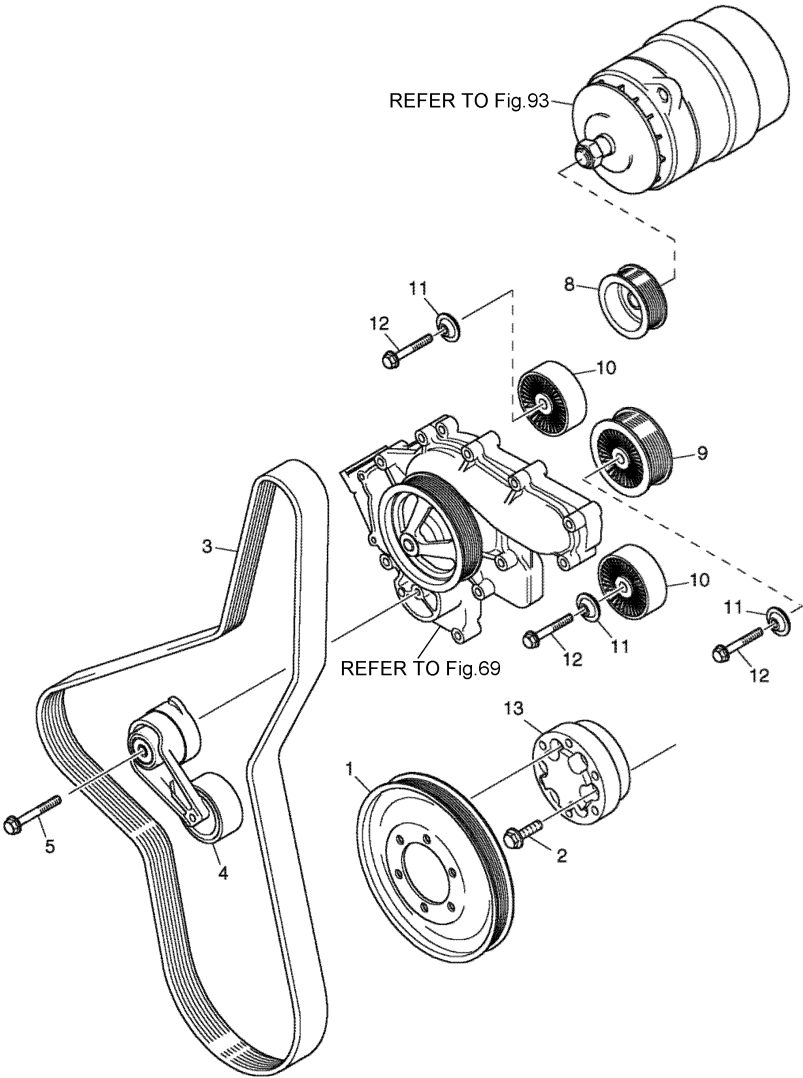


130698

Remarks
(1)WITHOUT PTO
(2)WITH PTO PULLEY-V

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-31450	PULLEY	1							1
1A	1	165000-31420	PULLEY	1							2
2	1	165000-27100	SCREW, M12X50	6							
3	1	165000-48750	V-BELT	1							
3-1	1	165001-31390	V-BELT	1							N
(A=E*****)											
4	1	165000-50000	TENSIONER, BELT	1							
4-1	1	165001-31400	TENSIONER, BELT	1							N
(A=E*****)											
5	1	165000-27000	SCREW, M10X60	1							
8	1	165000-31440	PULLEY	1							
9	1	165000-32900	ROLLER	1							
10	1	165000-32890	ROLLER	2							
11	1	165000-25860	COVER	3							
12	1	165000-27000	SCREW, M10X60	3							

Fig.67. BELT TRANSMISSION, ENGINE WIT



137390

(A)=8SY-STP
(B)=
(C)=

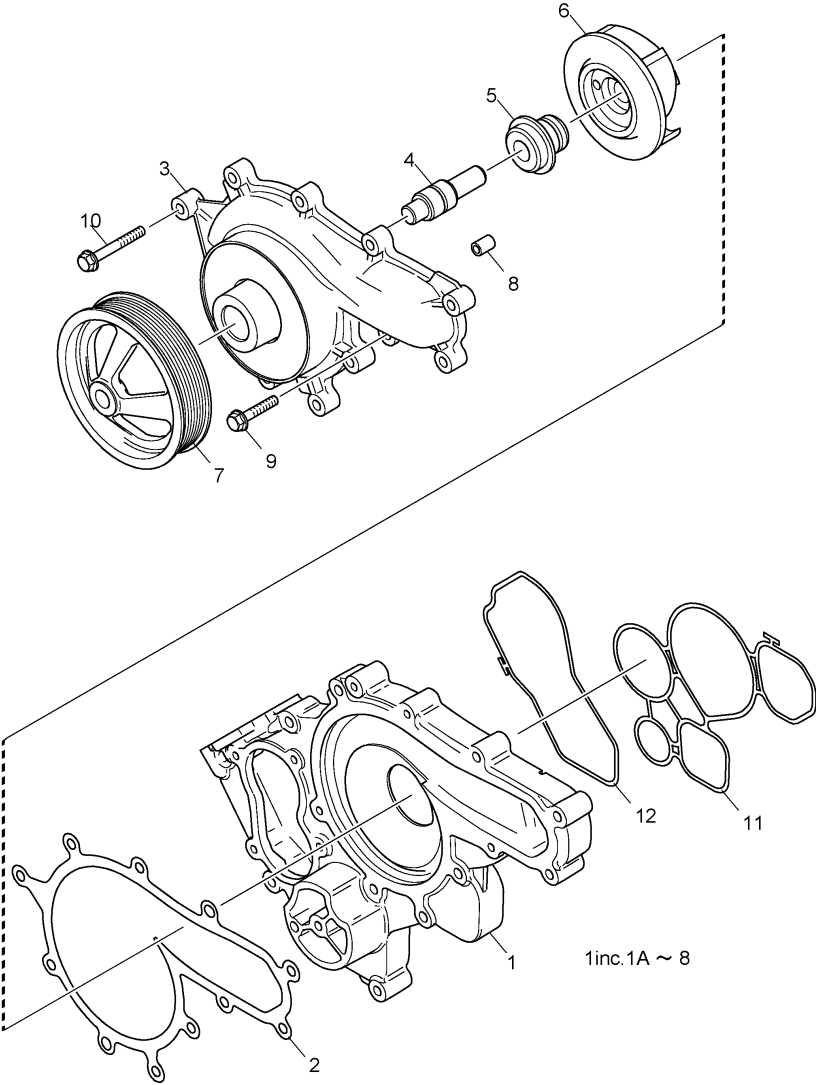
(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-43330	PULLEY	1							
2	1	165000-27100	SCREW, M12X50	6							
3	1	165001-31390	V-BELT	1							
4	1	165001-31400	TENSIONER, BELT	1							
5	1	165000-27000	SCREW, M10X60	1							
8	1	165000-31440	PULLEY	1							
9	1	165000-32900	ROLLER	1							
10	1	165000-32890	ROLLER	2							
11	1	165000-25860	COVER	3							
12	1	165000-27000	SCREW, M10X60	3							
13	1	165000-31460	PULLEY	1							



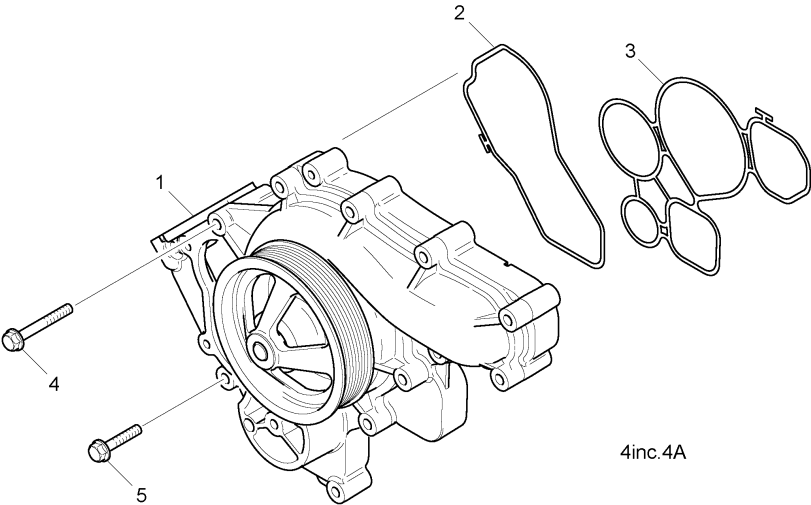
N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
(C)Copy Rights YANMAR CO.,LTD.

Fig.69. COOLANT PUMP



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-32000	PUMP ASSY, COOLANT	1							
2	2	165000-25360	GASKET	1							
4	2	165000-31550	BEARING	1							
5	2	165000-36550	RING	1							
5-1	2	165001-26400	RING, SEAL	1						N	
(A=E*****)											
7	2	165000-31430	PULLEY	1							
7-1	2	165000-91190	PULLEY	1						N	
(A=E*****)											
8	2	165000-28260	SLEEVE, GUIDE	2							
9	1	165000-27400	SCREW, M8X40	4							
10	1	165000-27430	SCREW, M8X60	8							
11	1	165000-25260	GASKET	1							
12	1	165000-25250	GASKET	1							

Fig.70. COOLANT PUMP, MOUNTING



0CR10-G57801 70. COOLANT PUMP, MOUNTING

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-32000	PUMP	1							
1-1	1	165000-65090	PUMP, COOLANT	1							W
(A=E*****)											
2	1	165000-25250	GASKET	1							
3	1	165000-25260	GASKET	1							
4	1	165000-27430	SCREW, M8X60	8							
4A	1	165000-27360	SCREW, M8X30	3							
5	1	165000-27400	SCREW, M8X40	4							

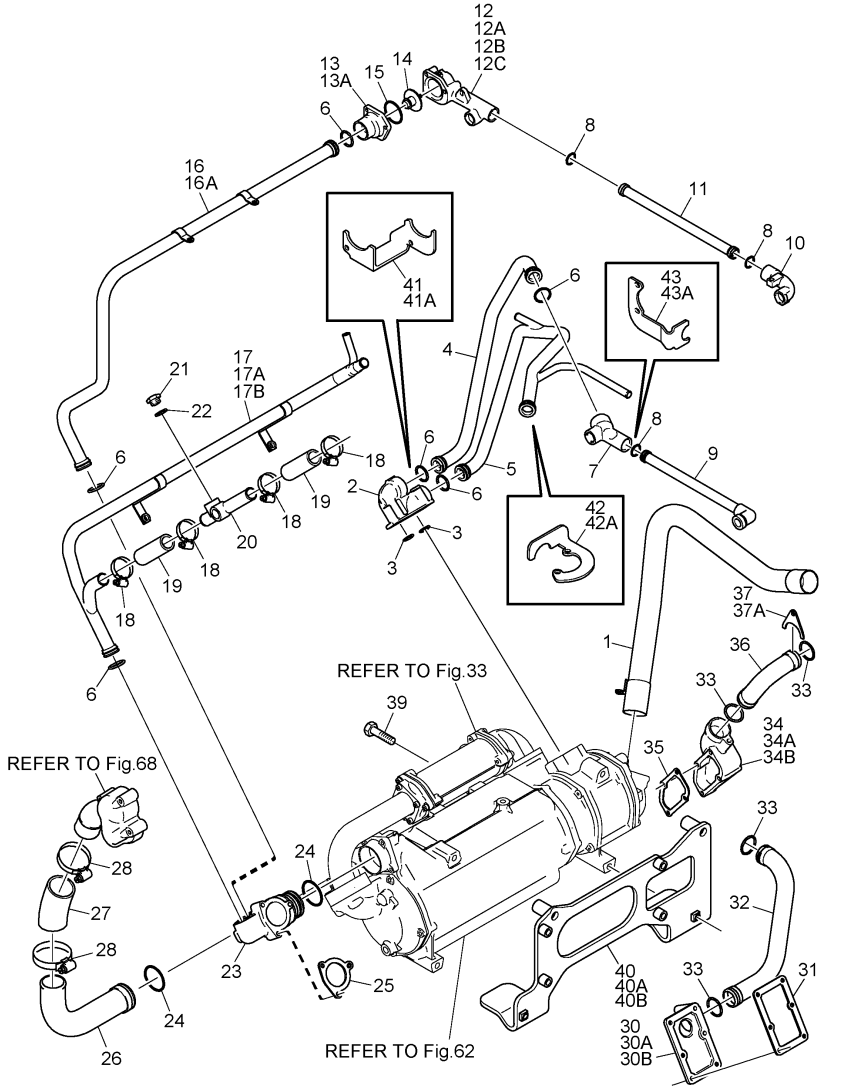


(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-32040	PUMP, BILGE	1							
1A	1	165000-31480	BREAKER, CIRCUIT	1							
2	1	165000-31120	BRACKET	1							
3	1	165000-26910	SCREW, M10X25	8							
4	1	165000-28870	NUT, FLANGE M10	4							
5	1	165000-27600	SUPPORT	1							
6	1	165000-27450	SCREW, M8X65	2							
7	1	165000-29040	NUT, FLANGE M8	2							
8	1	165000-31010	BRACKET, RH	1							
9	1	165000-32460	UNION, ELBOW	2							
10	1	165001-41760	V-BELT	1							
11	1	165001-43330	PULEEY	1							

N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
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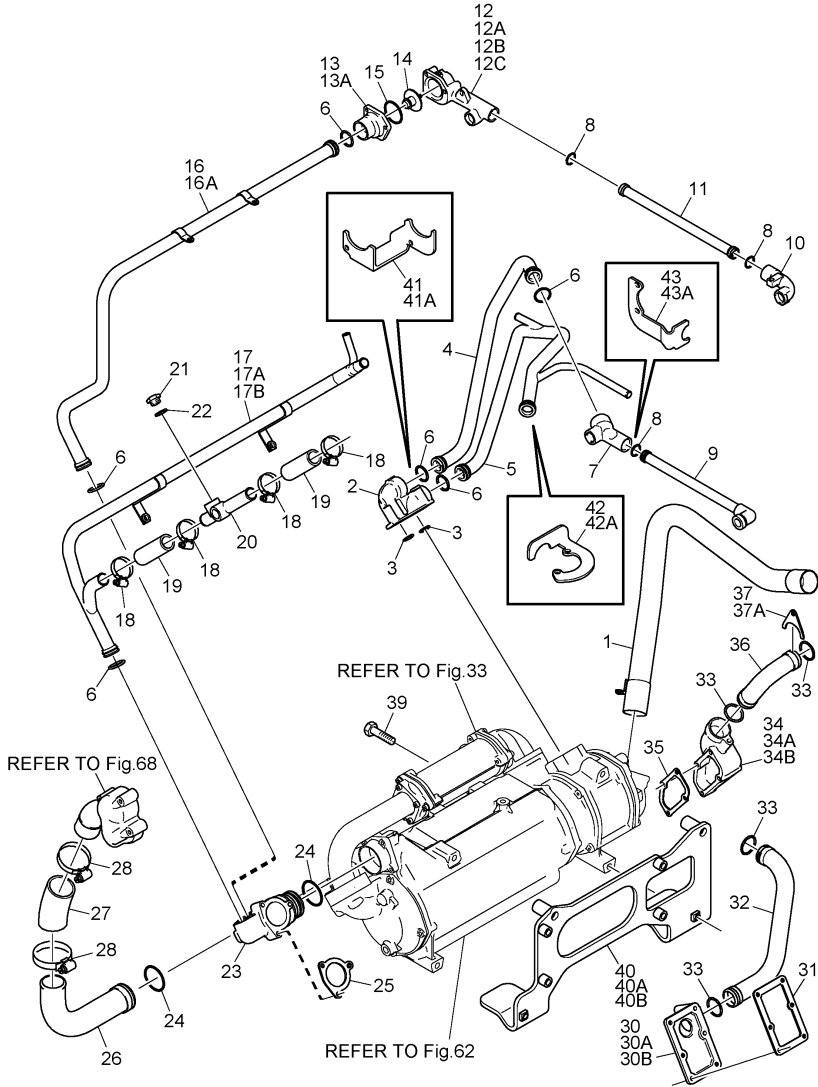
Fig.72. COOLANT PIPE, ENGINE



Remarks
(1) REQUIRE

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-29360	PIPE	1							
2	1	165000-31300	FLANGE	1							
3	1	165000-24600	O-RING, 35X5	2							
4	1	165000-29350	PIPE	1							
5	1	165000-51260	PIPE, WATER	1							
6	1	165000-24590	O-RING, 32.2X3	999							1
7	1	165000-50490	FLANGE	1							
8	1	165000-24560	O-RING, 22X3	999							1
9	1	165000-29540	PIPE	1							
10	1	165000-31270	FLANGE	1							
11	1	165000-28740	TUBE	1							
12	1	165000-50500	FLANGE	1							
12A	1	165000-50120	BRACKET	1							
12B	1	165000-50630	SCREW, SOCKET	2							
12C	1	165000-27350	SCREW, M8X25	1							
13	1	165000-31320	FLANGE	1							
13A	1	165000-27410	SCREW, M8X50	3							
14	1	165000-27620	THERMOSTAT	1							
15	1	165000-25530	GASKET	1							
16	1	165000-29420	PIPE	1							
16A	1	165000-27270	SCREW, M8X12	2							
17	1	165000-51720	PIPE, WATER	1							
17A	1	165000-51750	BRACKET	1							
17B	1	165000-27270	SCREW, M8X12	1							
18	1	165000-31840	CLAMP, HOSE	4							
19	1	165000-51730	HOSE	2							
20	1	165000-51740	PIPE, STATIC LINE	1							
21	1	165000-30950	PLUG, M26X1.5X9	1							
22	1	165000-25630	GASKET, 26.3X30.9	1							
23	1	165000-29700	PIPE, WATER	1							
24	1	165000-24410	O-RING	2							
25	1	165000-25210	GASKET	1							
26	1	165000-28690	TUBE	1							
27	1	165000-31650	HOSE	1							
28	1	165000-31850	CLAMP, HOSE	2							
30	1	165000-31290	FLANGE	1							
30A	1	165000-27300	SCREW, M8X20	4							
30B	1	165000-27480	SCREW, M8X80	2							
31	1	165000-25490	GASKET	1							
31-1	1	165001-26990	GASKET	1							
(A=E*****)											
32	1	165000-51270	PIPE, WATER	1							
33	1	165000-24610	O-RING, 39.2X3	4							
34	1	165000-50510	FLANGE	1							
34A	1	165000-27480	SCREW, M8X80	2							
34B	1	165000-27410	SCREW, M8X50	2							
35	1	165000-25500	GASKET	1							
35-1	1	165001-26990	GASKET	1							
(A=E*****)											
36	1	165000-51280	PIPE, WATER	1							
37	1	165000-32880	WASHER, LOCK	4							

Fig.72. COOLANT PIPE, ENGINE

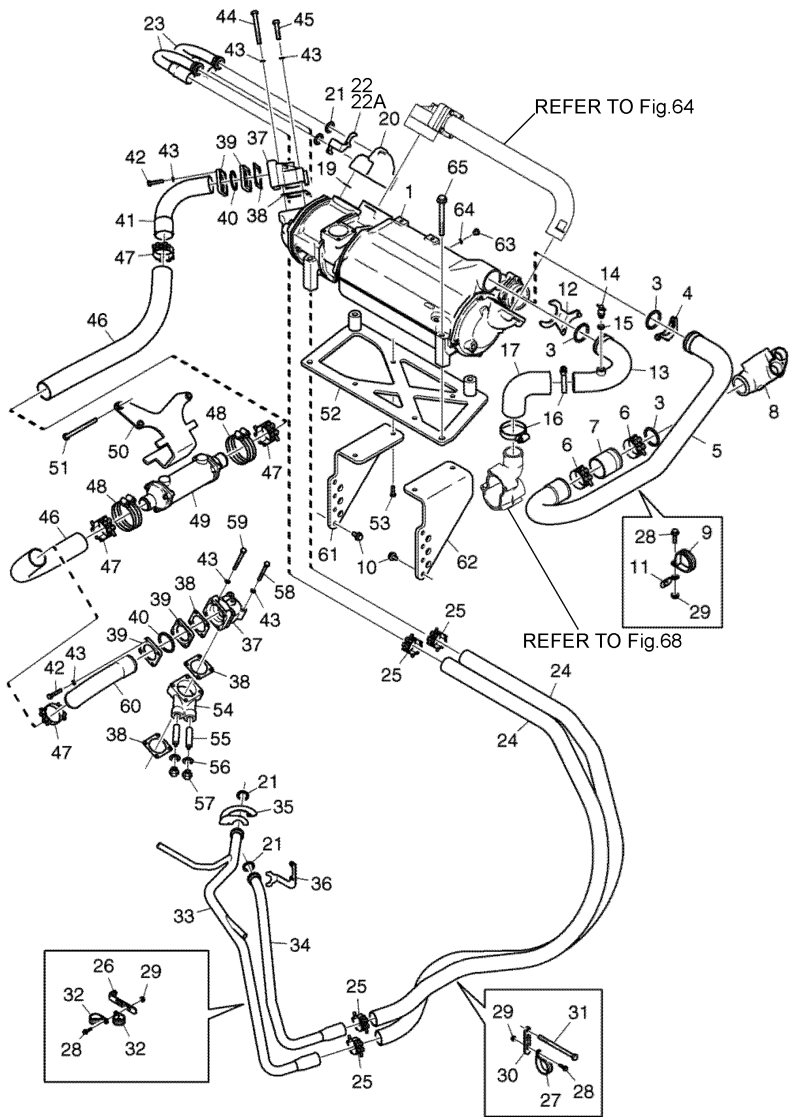


136683

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
37A	1	165000-27280	SCREW, M8X14	4							
39	1	165000-27060	SCREW, M12X130	4							
40	1	165000-50130	BRACKET	1							
40A	1	165000-27100	SCREW, M12X50	3							
40B	1	165000-49440	SCREW, HEXAGON	1							
41	1	165000-50140	BRACKET	1							
41A	1	165000-27270	SCREW, M8X12	2							
42	1	165000-50150	BRACKET	1							
42A	1	165000-27270	SCREW, M8X12	2							
43	1	165000-50160	BRACKET	2							
43-1	1	165000-53170	BRACKET	1							N
(A=E*****)											
43A	1	165000-27270	SCREW, M8X12	1							
45	1	165000-50630	SCREW, SOCKET	2							W
(A=E*****)											
46	1	165000-27350	SCREW, M8X25	1							W
(A=E*****)											
47	1	165000-27430	SCREW, M8X60	3							W
(A=E*****)											
48	1	165000-27270	SCREW, M8X12	9							W
(A=E*****)											
49	1	165000-51750	BRACKET	1							W
(A=E*****)											
50	1	165000-36950	SCREW, M8X110	1							W
(A=E*****)											
51	1	165000-27410	SCREW, M8X50	4							W
(A=E*****)											
52	1	165000-36730	SCREW	2							W
(A=E*****)											
53	1	165000-27360	SCREW, M8X30	4							W
(A=E*****)											
54	1	165000-27480	SCREW, M8X80	2							W
(A=E*****)											
55	1	165000-27280	SCREW, M8X14	4							W
(A=E*****)											
56	1	165000-27100	SCREW, M12X50	1							W
(A=E*****)											
57	1	165000-27100	SCREW, M12X50	3							W
(A=E*****)											
58	1	165000-37100	SEAL	1							W
(A=E*****)											

Remarks
(1) REQUIRE

Fig.73. COOLANT PIPE, HEAT EXCHANGER



146319

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
3	1	165000-24410	O-RING	3							
4	1	165001-27040	BRACKET	1							
5	1	165001-27050	PIPE	1							
6	1	165000-31860	CLIP, HOSE	2							
7	1	165001-27060	HOSE	1							
8	1	165000-29690	PIPE, WATER	1							
9	1	165001-27070	CLIP	1							
10	1	165000-26910	SCREW, M10X25	8							
11	1	165000-51690	BRACKET	1							
12	1	165001-27080	BRACKET	1							
13	1	165001-27090	PIPE	1							
14	1	165000-28500	TAP, DRAIN	1							
15	1	165000-37080	SEAL	1							
16	1	165000-31790	CLAMP, HOSE	2							
17	1	165001-27100	HOSE	1							
19	1	165000-24600	O-RING, 35X5	2							
20	1	165000-31300	FLANGE	1							
21	1	165000-24590	O-RING, 32.2X3	4							
22	1	165000-50140	BRACKET	1							
22A	1	165000-27270	SCREW, M8X12	2							
23	1	165001-27110	PIPE	2							
24	1	165001-27120	HOSE	2							
25	1	165001-27130	CLAMP	4							
26	1	165001-27140	BRACKET	1							
27	1	165000-73040	CLAMP	4							
28	1	165001-27150	SCREW, FLANGE	6							
29	1	165000-29010	NUT, FLANGE M6	6							
30	1	165001-27160	BRACKET	1							
31	1	165001-27170	SCREW, HEXAGON	1							
32	1	165001-27180	CLAMP	2							
33	1	165001-27190	PIPE, WATER	1							
34	1	165000-29260	PIPE	1							
35	1	165000-50150	BRACKET	1							
36	1	165000-53170	BRACKET	1							
37	1	165000-31260	FLANGE	2							
38	1	165000-93530	GASKET	5							
39	1	165000-31250	FLANGE	4							
40	1	165000-32630	RING	2							
41	1	165001-27200	PIPE	1							
42	1	165000-27390	SCREW, M8X35	8							
43	1	165000-33150	WASHER, 8.4X16X1.6	16							
44	1	165000-26620	SCREW, M8X90	2							
45	1	165000-27420	SCREW, M8X55	2							
46	1	165001-27210	HOSE	2							
47	1	165000-73050	CLAMP, HOSE	4							
48	1	165000-34070	CLIP, HOSE	4							
49	1	165001-27220	COOLER, OIL	1							
50	1	165001-27230	BRACKET	1							
51	1	165001-39310	SCREW	3							
52	1	165001-27240	BRACKET	1							
53	1	165001-27250	SCREW	4							

Fig.73. COOLANT PIPE, HEAT EXCHANGER

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
54	1	165001-26880	FLANGE	1							
55	1	165000-73000	ANODE, SACRIFICIAL	2							
56	1	165000-27920	RING, SEALING	2							
57	1	165000-31370	PLUG	2							
58	1	165000-36730	SCREW	2							
59	1	165001-27260	SCREW	2							
60	1	165001-27200	PIPE	1							
61	1	165001-27270	BRACKET, LH	1							
62	1	165001-27280	BRACKET, RH	1							
63	1	165000-30900	PLUG, M12X1.5X6	2							
64	1	165000-27770	SEAL	2							
65	1	165001-27290	SCREW	4							

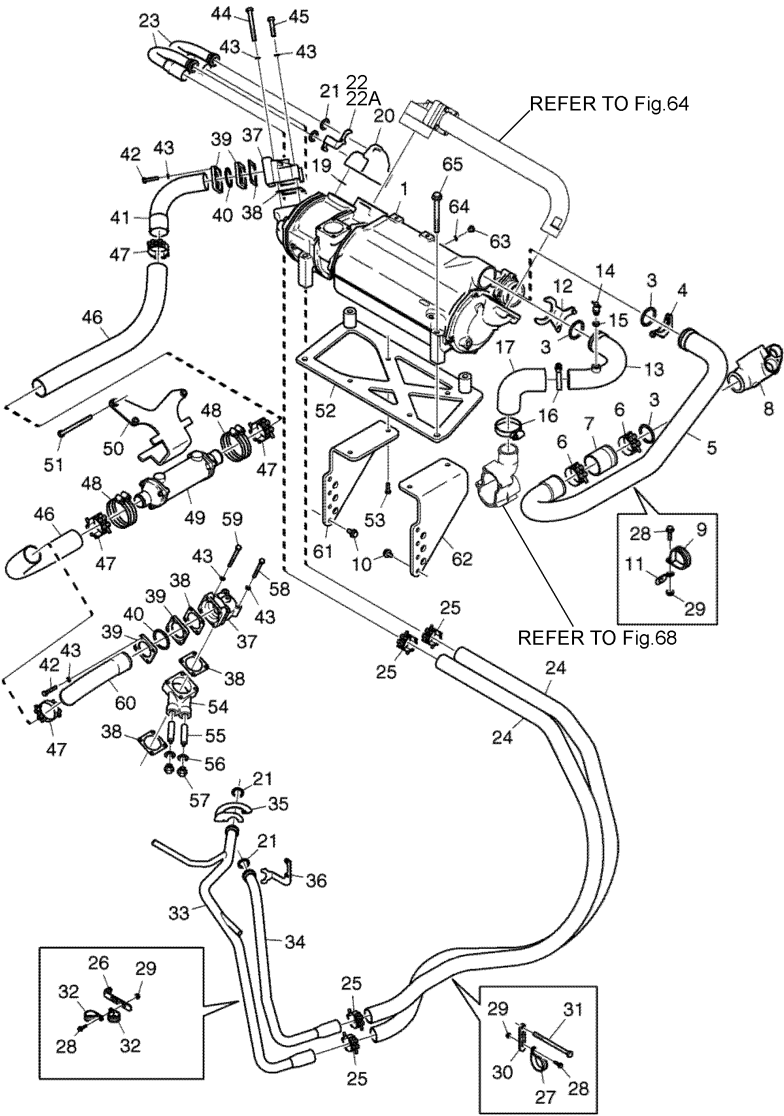
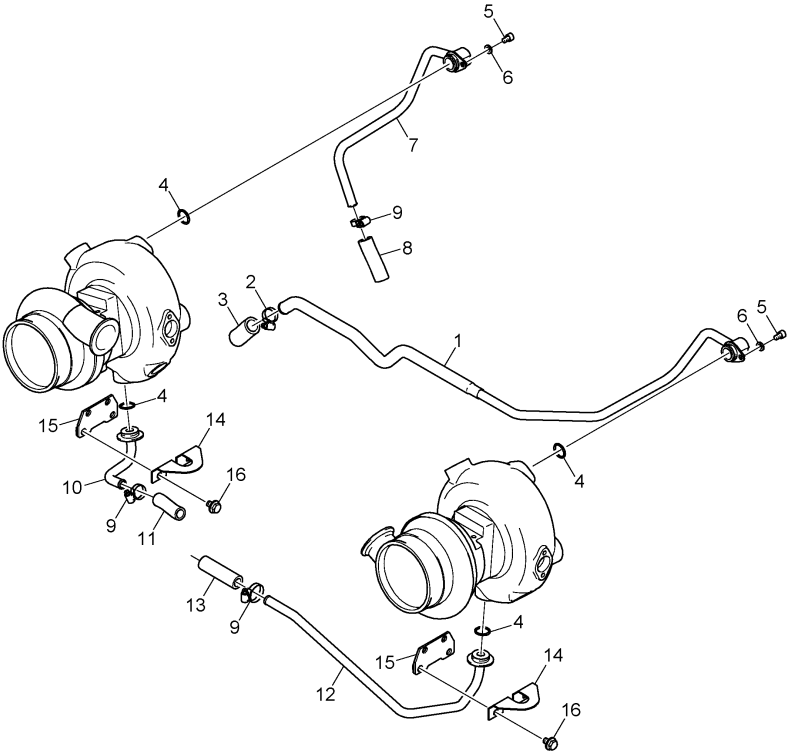


Fig.74. COOLANT PIPE, TURBOCHARGER

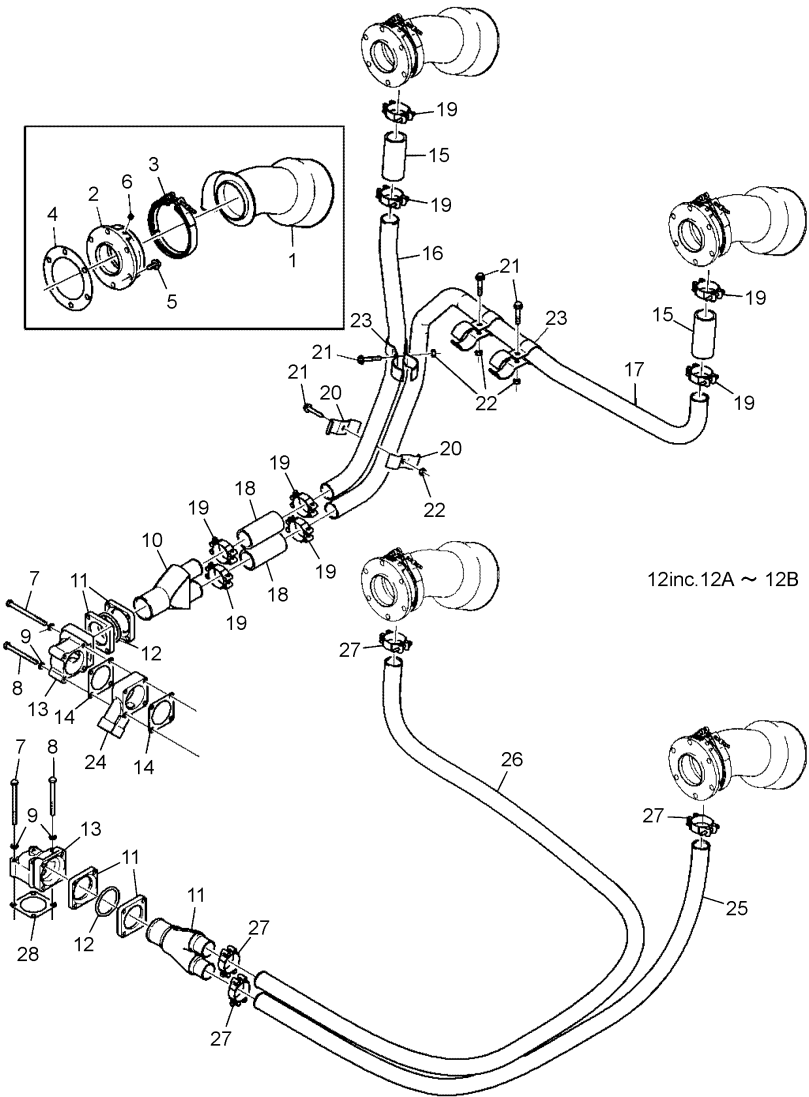


136684

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-51290	PIPE, WATER	1							
2	1	165000-31840	CLAMP, HOSE	2							
3	1	165000-50670	HOSE	1							
3-1	1	165001-27000	HOSE	1						N	
		(A=E*****)									
4	1	165000-50820	O-RING	4							
5	1	165000-51080	SCREW, M8X12	2							
6	1	165000-33150	WASHER, 8.4X16X1.6	2							
7	1	165000-51300	PIPE, WATER	1							
8	1	165000-35120	HOSE	999							1
9	1	165000-31830	CLAMP, HOSE	6							
10	1	165000-51310	PIPE, WATER	1							
11	1	165000-35120	HOSE	999							1
12	1	165000-51320	PIPE, WATER	1							
13	1	165000-35120	HOSE	999							1
14	1	165000-50170	BRACKET	2							
15	1	165000-50180	BRACKET	2							
16	1	165000-27270	SCREW, M8X12	8							

Remarks
(1)REQUIRE

Fig.75. COOLANT PIPE, EXHAUST PIPE BE

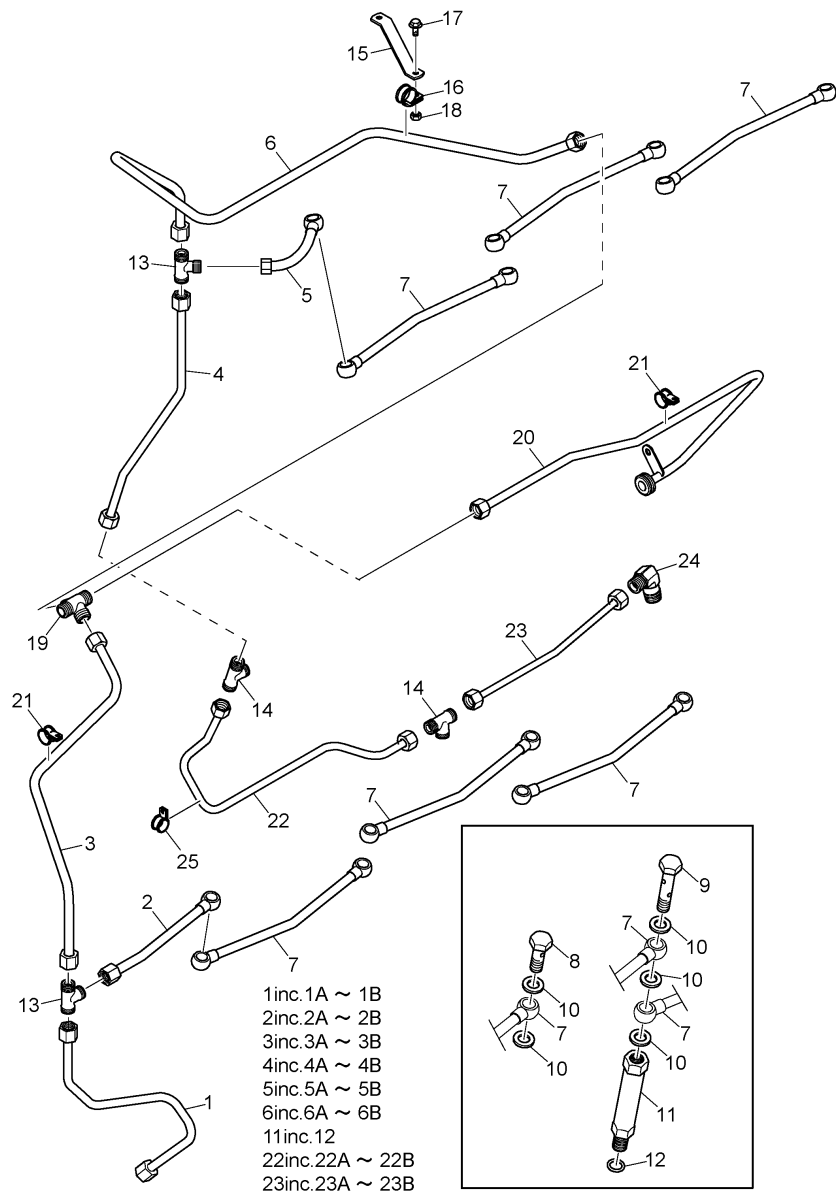


(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-27300	PIPE, EXHAUST	2							
2	1	165001-27310	FLANGE	2							
3	1	165001-26440	V-CLAMP	2							
4	1	165001-21330	GASKET	2							
5	1	165000-36760	SCREW, M10X20	12							
6	1	165001-26460	PLUG	2							
7	1	165001-27260	SCREW	2							
8	1	165000-36730	SCREW	2							
9	1	165000-33150	WASHER, 8.4X16X1.6	4							
10	1	165001-27320	THREE-WAY UNION	1							
11	1	165000-31250	FLANGE	2							
12	1	165000-32630	RING	1							
12A	1	165000-27390	SCREW, M8X35	4							
12B	1	165000-33150	WASHER, 8.4X16X1.6	4							
13	1	165000-31260	FLANGE	1							
14	1	165000-93530	GASKET	2							
15	1	165001-27330	HOSE	2							
16	1	165001-27340	PIPE, WATER	1							
17	1	165001-31420	PIPE, COOLANT	1							
18	1	165001-27360	HOSE	2							
19	1	165001-27130	CLAMP	8							
20	1	165001-27370	BRACKET	2							
21	1	165000-27380	SCREW, M8X35	4							
22	1	165001-27380	NUT	4							
23	1	165001-27390	BRACKET	6							
24	1	165001-26880	FLANGE	1							
25	1	165001-27120	HOSE	1							
26	1	165001-27400	HOSE	1							
27	1	165001-27130	CLAMP	4							
28	1	165000-93530	GASKET	1							

Fig.76. BLEED PIPE(E6500001-6510612)



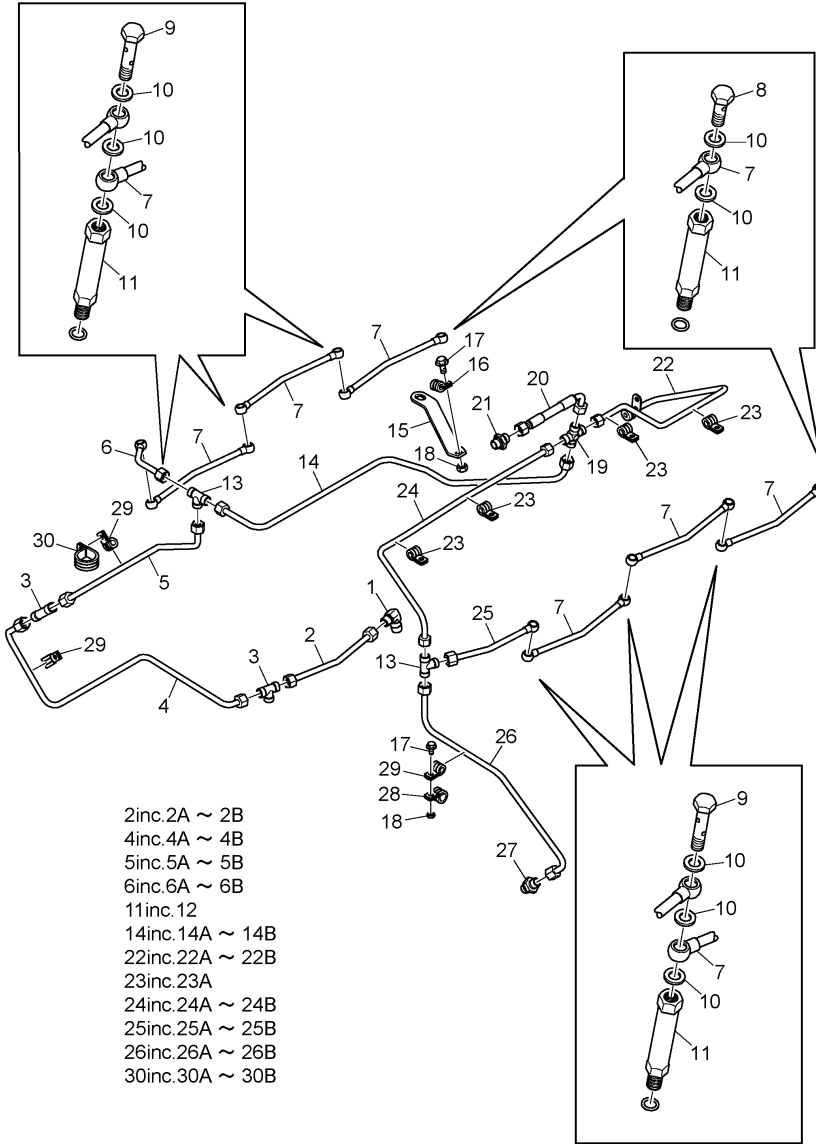
131909

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-29450	PIPE	1							
I 1A	2	165000-32520	NUT, UNION M8	2							
I 1B	2	165000-26160	FERRULE, 8	2							
2	1	165000-29460	PIPE	1							
I 2A	2	165000-32520	NUT, UNION M8	1							
I 2B	2	165000-26160	FERRULE, 8	1							
3	1	165000-29510	PIPE	1							
I 3A	2	165000-32520	NUT, UNION M8	2							
I 3B	2	165000-26160	FERRULE, 8	2							
4	1	165000-29610	PIPE, VENTILATION	1							
I 4A	2	165000-32520	NUT, UNION M8	2							
I 4B	2	165000-26160	FERRULE, 8	2							
5	1	165000-29480	PIPE	1							
I 5A	2	165000-32520	NUT, UNION M8	1							
I 5B	2	165000-26160	FERRULE, 8	1							
6	1	165000-50890	PIPE	1							
I 6A	2	165000-32520	NUT, UNION M8	2							
I 6B	2	165000-26160	FERRULE, 8	2							
7	1	165000-29570	PIPE, BLEED	6							
8	1	165000-26860	SCREW, M10X1	2							
9	1	165000-26810	SCREW, BANJO	6							
10	1	165000-25560	GASKET, 10.2X13.4	22							
11	1	165000-26570	CONNECTOR	8							
12	2	165000-50280	CONNECTOR	8							
13	1	165000-32350	UNION, T	2							
14	1	165000-32360	UNION, T	2							
15	1	165000-31180	BRACKET	1							
16	1	165000-26280	CLAMP	1							
17	1	165000-27210	SCREW, M6X10	1							
18	1	165000-29030	NUT, M6	1							
19	1	165000-32210	UNION, FOUR WAY	1							
19-1	1	165000-50540	UNION, FOUR WAY	1							N
(A=E*****)											
20	1	165000-29520	PIPE	1							
21	1	165000-50260	CLAMP	1							
21-1	1	165000-26310	CLIP	2							N
(A=E*****)											
I 21A	1	165000-50260	CLAMP	1							
22	1	165000-29490	PIPE	1							
I 22A	2	165000-32520	NUT, UNION M8	2							
I 22B	2	165000-26160	FERRULE, 8	2							
23	1	165000-29500	PIPE	1							
I 23A	2	165000-32520	NUT, UNION M8	2							
I 23B	2	165000-26160	FERRULE, 8	2							
24	1	165000-32420	UNION, ELBOW	1							
25	1	165000-26210	CLAMP, 8	1							

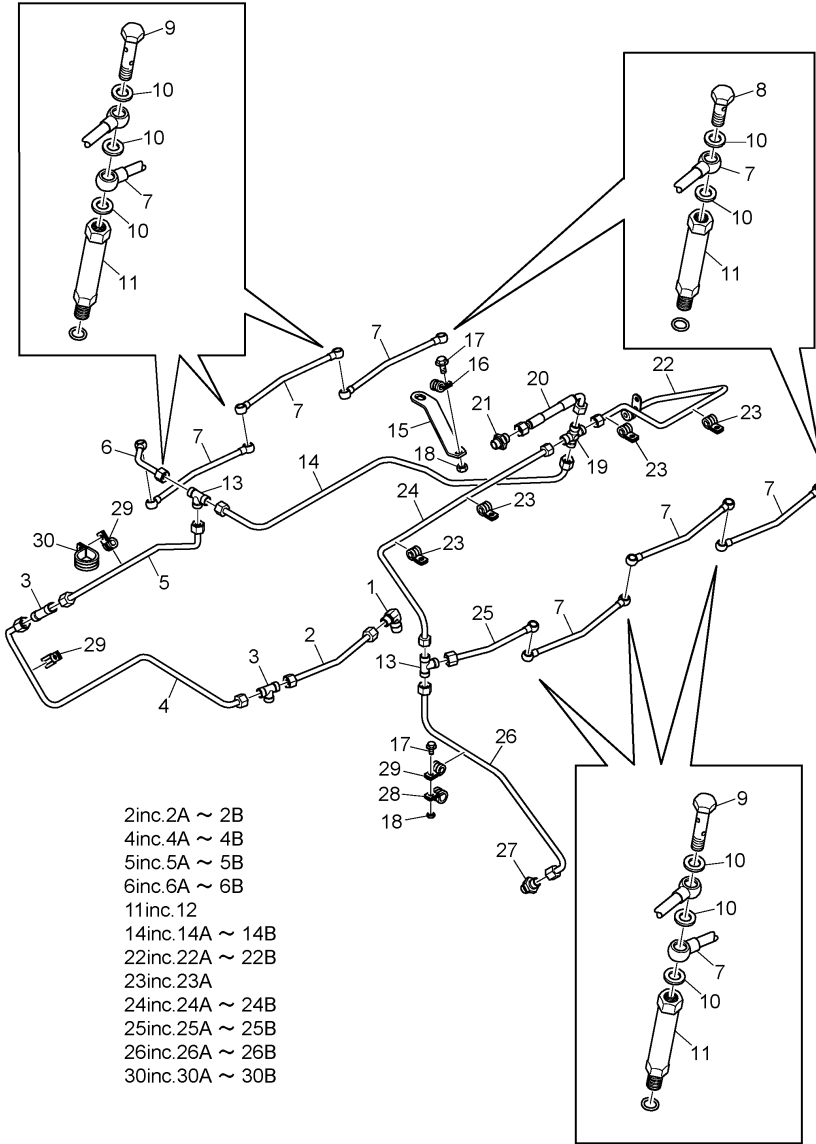
Fig.77. BLEED PIPE(E6510613-6513510)



136639

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-32420	UNION, ELBOW	1							
2	1	165000-29500	PIPE	1							
I 2A	2	165000-32520	NUT, UNION M8	2							
I 2B	2	165000-26160	FERRULE, 8	2							
3	1	165000-32360	UNION, T	2							
4	1	165000-29490	PIPE	1							
I 4A	2	165000-32520	NUT, UNION M8	2							
I 4B	2	165000-26160	FERRULE, 8	2							
5	1	165000-50900	PIPE	1							
I 5A	2	165000-32520	NUT, UNION M8	2							
I 5B	2	165000-26160	FERRULE, 8	2							
6	1	165000-51200	PIPE, VENTILATION	1							
I 6A	2	165000-32520	NUT, UNION M8	1							
I 6B	2	165000-26160	FERRULE, 8	1							
7	1	165000-29570	PIPE, BLEED	6							
8	1	165000-26860	SCREW, M10X1	2							
9	1	165000-26810	SCREW, BANJO	6							
10	1	165000-25560	GASKET, 10.2X13.4	22							
11	1	165000-26570	CONNECTOR	8							
13	1	165000-32350	UNION, T	2							
14	1	165000-50890	PIPE	1							
I 14A	2	165000-32520	NUT, UNION M8	2							
I 14B	2	165000-26160	FERRULE, 8	2							
15	1	165000-31180	BRACKET	1							
16	1	165000-26280	CLAMP	1							
17	1	165000-27210	SCREW, M6X10	2							
18	1	165000-29030	NUT, M6	2							
19	1	165000-50540	UNION, FOUR WAY	1							
20	1	165000-50660	HOSE	1							
21	1	165000-32330	UNION, STRAIGHT	1							
22	1	165000-51190	PIPE, VENTILATION	1							
I 22A	2	165000-32520	NUT, UNION M8	1							
I 22B	2	165000-26160	FERRULE, 8	1							
23	1	165000-26310	CLIP	4							
I 23A	1	165000-27270	SCREW, M8X12	2							
24	1	165000-50910	PIPE	1							
I 24A	2	165000-32520	NUT, UNION M8	2							
I 24B	2	165000-26160	FERRULE, 8	2							
25	1	165000-29460	PIPE	1							
I 25A	2	165000-32520	NUT, UNION M8	1							
I 25B	2	165000-26160	FERRULE, 8	1							
26	1	165000-50920	PIPE	1							
I 26A	2	165000-32520	NUT, UNION M8	2							
I 26B	2	165000-26160	FERRULE, 8	2							
27	1	165000-32330	UNION, STRAIGHT	1							
28	1	165000-26290	CLAMP, 12MM	1							
29	1	165000-26210	CLAMP, 8	3							
30	1	165000-29030	NUT, M6	1							
I 30A	1	165000-50270	CLAMP, 28	1							
I 30B	1	165000-27210	SCREW, M6X10	1							

Fig.78. BLEED PIPE(E1039758-)



- 2inc. 2A ~ 2B
- 4inc. 4A ~ 4B
- 5inc. 5A ~ 5B
- 6inc. 6A ~ 6B
- 11inc. 12
- 14inc. 14A ~ 14B
- 22inc. 22A ~ 22B
- 23inc. 23A
- 24inc. 24A ~ 24B
- 25inc. 25A ~ 25B
- 26inc. 26A ~ 26B
- 30inc. 30A ~ 30B

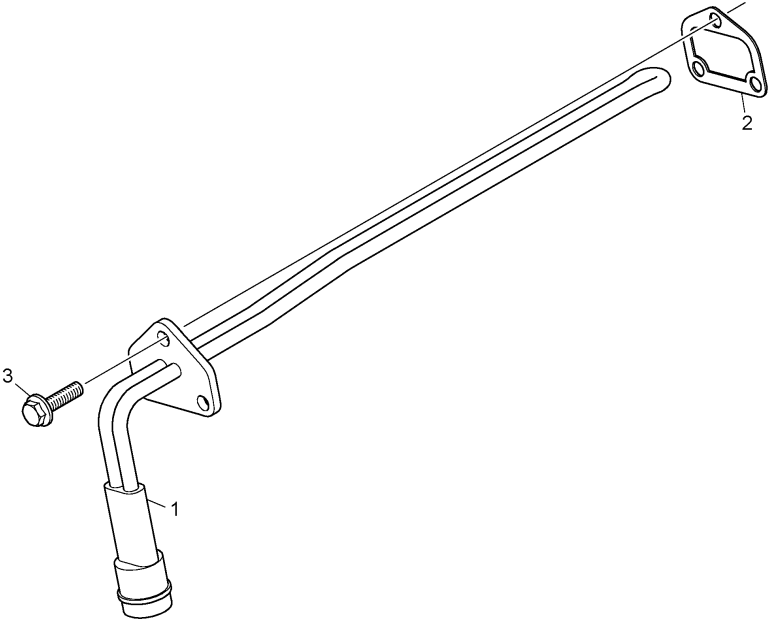
136639

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-32420	UNION, ELBOW	1							
2	1	165000-29500	PIPE	1							
I 2A	2	165000-32520	NUT, UNION M8	2							
I 2B	2	165000-26160	FERRULE, 8	2							
3	1	165000-32360	UNION, T	2							
4	1	165000-29490	PIPE	1							
I 4A	2	165000-32520	NUT, UNION M8	2							
I 4B	2	165000-26160	FERRULE, 8	2							
5	1	165000-50900	PIPE	1							
I 5A	2	165000-32520	NUT, UNION M8	2							
I 5B	2	165000-26160	FERRULE, 8	2							
6	1	165000-51200	PIPE, VENTILATION	1							
I 6A	2	165000-32520	NUT, UNION M8	1							
I 6B	2	165000-26160	FERRULE, 8	1							
7	1	165000-29570	PIPE, BLEED	6							
8	1	165000-26860	SCREW, M10X1	2							
9	1	165000-26810	SCREW, BANJO	6							
10	1	165000-25560	GASKET, 10.2X13.4	22							
11	1	165000-26570	CONNECTOR	8							
13	1	165000-32350	UNION, T	2							
14	1	165000-50890	PIPE	1							
I 14A	2	165000-32520	NUT, UNION M8	2							
I 14B	2	165000-26160	FERRULE, 8	2							
15	1	165000-31180	BRACKET	1							
16	1	165000-26280	CLAMP	1							
17	1	165000-27210	SCREW, M6X10	2							
18	1	165000-29030	NUT, M6	2							
19	1	165000-50540	UNION, FOUR WAY	1							
20	1	165000-50660	HOSE	1							
21	1	165000-32330	UNION, STRAIGHT	1							
22	1	165000-51190	PIPE, VENTILATION	1							
I 22A	2	165000-32520	NUT, UNION M8	1							
I 22B	2	165000-26160	FERRULE, 8	1							
23	1	165000-26310	CLIP	4							
I 23A	1	165000-27270	SCREW, M8X12	2							
24	1	165000-50910	PIPE	1							
I 24A	2	165000-32520	NUT, UNION M8	2							
I 24B	2	165000-26160	FERRULE, 8	2							
25	1	165000-29460	PIPE	1							
I 25A	2	165000-32520	NUT, UNION M8	1							
I 25B	2	165000-26160	FERRULE, 8	1							
26	1	165000-50920	PIPE	1							
I 26A	2	165000-32520	NUT, UNION M8	2							
I 26B	2	165000-26160	FERRULE, 8	2							
27	1	165000-32330	UNION, STRAIGHT	1							
28	1	165000-26290	CLAMP, 12MM	1							
29	1	165000-26210	CLAMP, 8	3							
30	1	165000-50270	CLAMP, 28	1							
I 30A	1	165000-27210	SCREW, M6X10	1							
I 30B	1	165000-29030	NUT, M6	1							

Fig.79. AUXILIARY HEATER, ENGINE, IMME



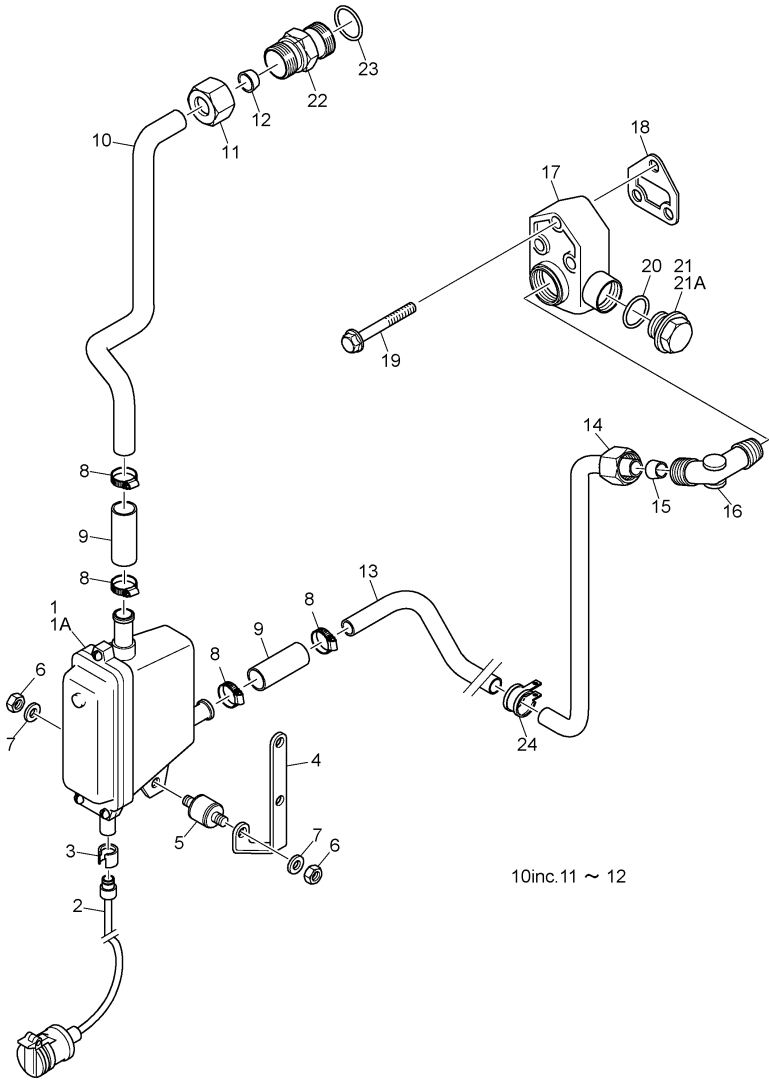
0CR10-G57801 79. AUXILIARY HEATER, ENGINE, IMME

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-30420	HEATER, ENGINE	1							
2	1	165000-25190	GASKET	1							
3	1	165000-27240	SCREW, M6X16	3							

Fig.80. AUXILIARY HEATER, ENGINE, EXTE



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Remarks

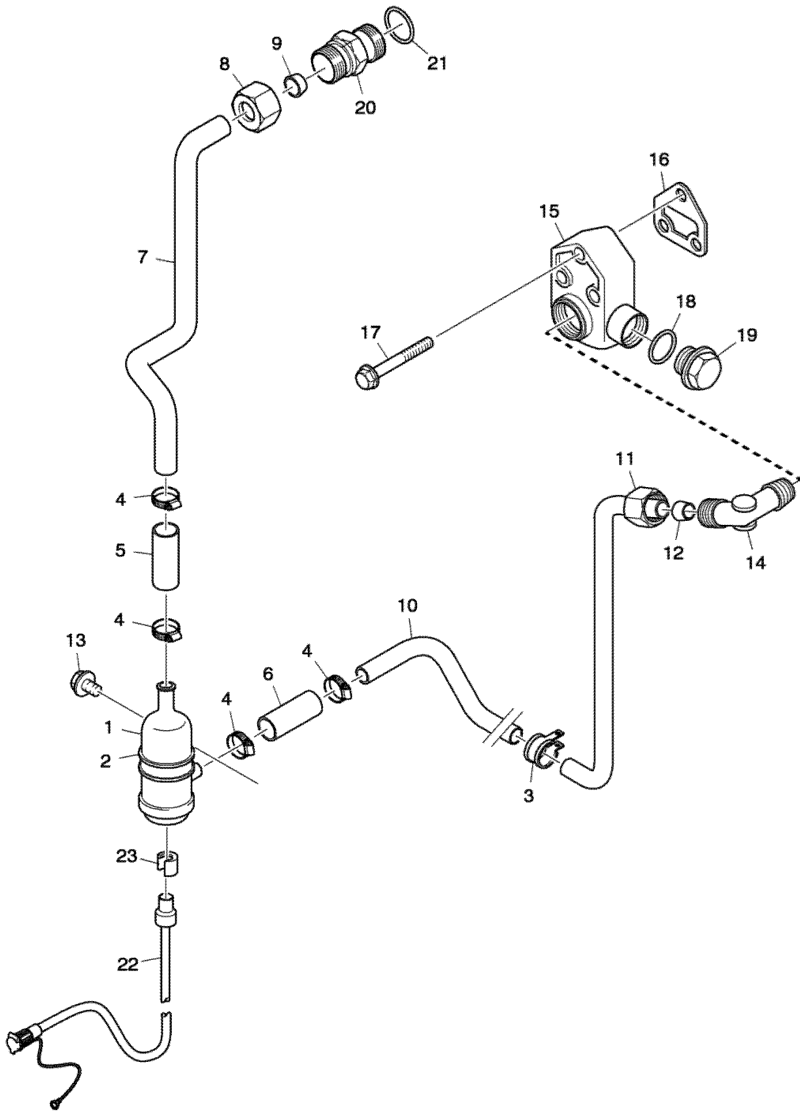
- (1)ENGINE SUSP. LOW
- (2)ENGINE SUSP. HIGH

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-30410	HEATER, 500W	1							
1A	1	165000-30400	HEATER, 1500W	1							
2	1	165000-26400	CABLE, INPUT L=2000	1							
3	1	165000-48890	CLIP	1							
4	1	165000-31170	BRACKET	1							
I 4A	1	1778460		1							
I 4B	1	165000-27330	SCREW, M8X25	2							
5	1	165000-24820	INSULATOR, VIBRATION	1							
6	1	165000-29060	NUT, HEXAGON M8	2							
6-1	1	165000-29040	NUT, FLANGE M8	2							W
(A=E*****)											
7	1	165000-33150	WASHER	2							
8	1	165000-31840	CLAMP, HOSE	4							1
I 8A	1	1778458		4							2
9	1	165000-31630	HOSE	2							
10	1	165000-29670	PIPE ASSY, WATER	1							
11	2	165000-32480	NUT	1							
11-1	2	165000-32500	NUT, UNION M22	1							W
(A=E*****)											
12	2	165000-26140	FERRULE, 22	1							
13	1	165000-29620	PIPE ASSY	1							1
I 13A	1	1778459		1							2
14	2	165000-32500	NUT, UNION M22	1							
15	2	165000-26140	FERRULE, 22	1							
16	1	165000-50400	UNION, ELBOW	1							
17	1	165000-31350	FLANGE	1							
18	1	165000-25190	GASKET	1							
19	1	165000-27540	SCREW, FLANGE	3							
20	1	165000-37090	SEAL	1							
21	1	165000-30950	PLUG, M26X1.5X9	1							
22	1	165000-37760	UNION, STRAIGHT	1							
23	1	165000-37090	SEAL	1							
24	1	165000-34020	CLAMP, 22	2							

Fig.81. AUXILIARY HEATER, ENGINE, EXTE

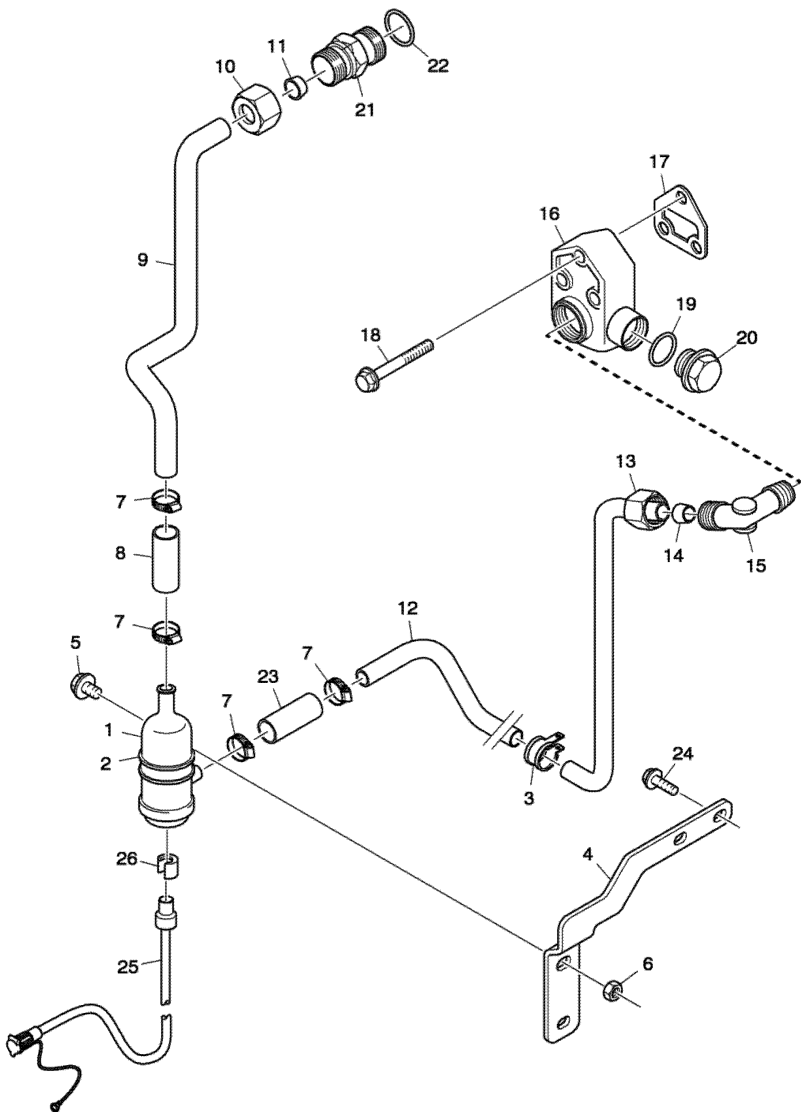


(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-45840	ENGINE HEATER (500W	1							
1A	1	165001-45850	ENGINE HEATER (1500W	1							
2	1	165001-45860	CLAMP	1							
3	1	165000-34020	CLAMP, 22	2							
4	1	165000-31840	CLAMP, HOSE	4							
5	1	165000-31630	HOSE	1							
6	1	1880174	*****	1							
7	1	165000-29670	PIPE ASSY, WATER	1							
8	2	165000-32500	NUT, UNION M22	1							
9	2	165000-26140	FERRULE, 22	1							
10	1	165000-29620	PIPE ASSY	1							
11	2	165000-32500	NUT, UNION M22	1							
12	2	165000-26140	FERRULE, 22	1							
13	1	165000-36760	SCREW, M10X20	1							
14	1	165000-50400	UNION, ELBOW	1							
15	1	165000-31350	FLANGE	1							
16	1	165000-25190	GASKET	1							
17	1	165000-27540	SCREW, FLANGE	3							
18	1	165000-37090	SEAL	1							
19	1	165000-30950	PLUG, M26X1.5X9	1							
20	1	165000-37760	UNION, STRAIGHT	1							
21	1	165000-37090	SEAL	1							
23	1	165000-48890	CLIP	1							

Fig.82. AUXILIARY HEATER, ENGINE, EXTE



302759

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

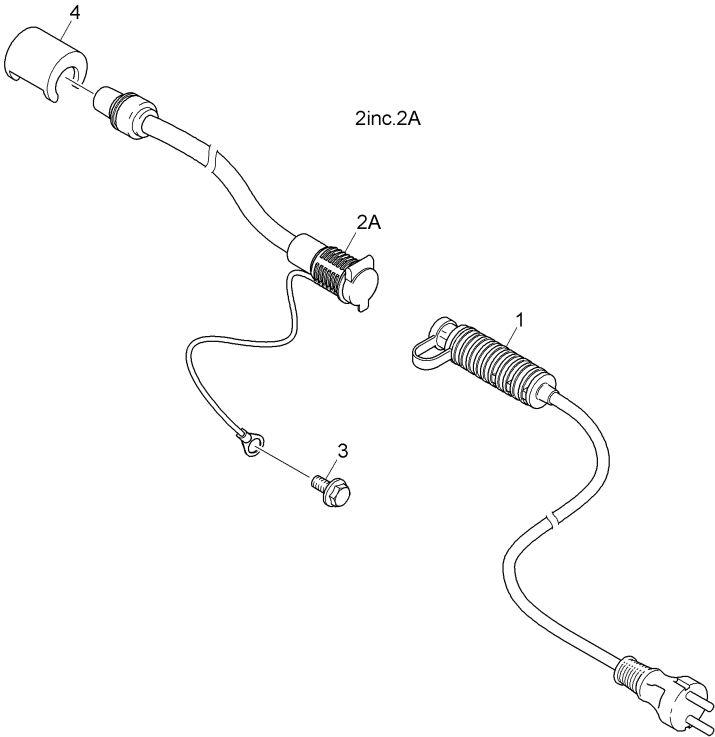
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-45840	ENGINE HEATER (500W	1							
1A	1	165001-45850	ENGINE HEATER (1500W	1							
2	1	165000-34020	CLAMP, 22	2							
3	1	165000-26910	SCREW, M10X25	1							
4	1	1778460	GASKET	1							
5	1	812536	SCREW, M10X25	1							
6	1	165000-28870	NUT, FLANGE M10	1							
7	1	165000-31840	CLAMP, HOSE	4							
8	1	165000-31630	HOSE	2							
9	1	1778458	PIPE	1							
10	1	165000-32500	NUT, UNION M22	1							
11	1	165000-26140	FERRULE, 22	1							
12	1	1778459	PIPE	1							
13	2	165000-32500	NUT, UNION M22	1							
14	2	165000-26140	FERRULE, 22	1							
15	1	165000-50400	UNION, ELBOW	1							
16	1	165000-31350	FLANGE	1							
17	1	165000-25190	GASKET	1							
18	1	165000-27540	SCREW, FLANGE	3							
19	1	165000-37090	SEAL	1							
20	1	165000-30950	PLUG, M26X1.5X9	1							
21	1	165000-37760	UNION, STRAIGHT	1							
22	1	165000-37090	SEAL	1							
23	1	1880174	HOSE	1							
24	1	165000-27330	SCREW, M8X25	2							
26	1	165000-48890	CLIP	1							

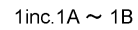
Fig.83. UNIT INJECTOR

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

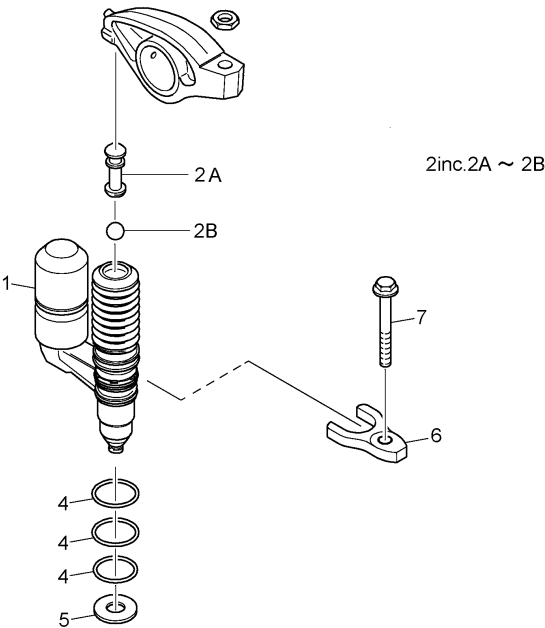
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-33820	CABLE L=5000	1							
2	1	165000-33830	CABLE, INPUT L=750	1							
2A	1	165000-73800	CABLE, INPUT L=1500	1							
3	1	165000-37050	SCREW, M6X20	1							
4	1	165000-48890	CLIP	1							





N:Old $\xleftrightarrow[\text{No}]{\text{Yes}}$ New, Q:Old $\xleftrightarrow[\text{Yes}]{\text{No}}$ New, R:Old $\xleftrightarrow[\text{Yes}]{\text{Yes}}$ New, S:Old $\xleftrightarrow[\text{No}]{\text{No}}$ New, W:Add, Z:Discontinued, F:Interchangeable by set, K:Q'ty Change
(C)Copy Rights YANMAR CO.,LTD.

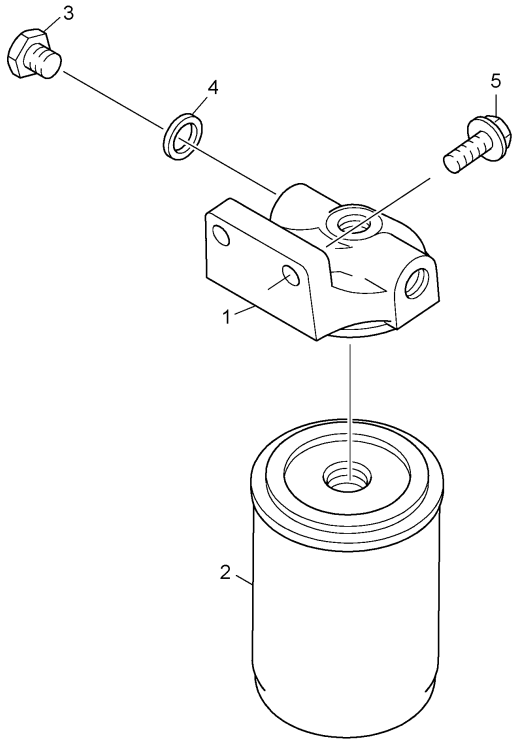
Fig.85. UNIT INJECTOR



0CR10-G57801 85. UNIT INJECTOR

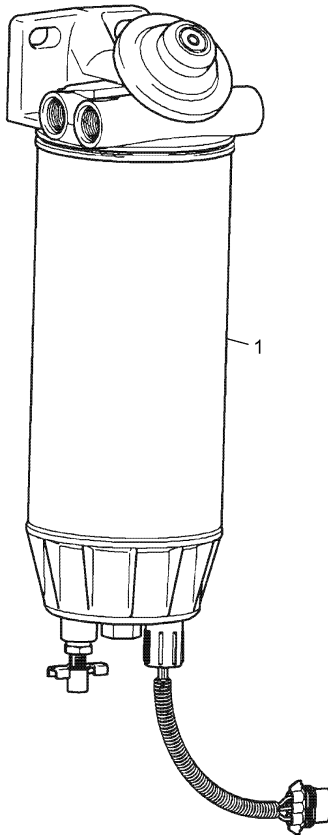
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-24880	INJECTOR	8							
1-1	1	165001-31050	INJECTOR, UNIT	8							
(A=E*****)											
2	1	165000-30690	ROD ASSY	8							
4	1	165000-24490	GASKET	8							
5	1	165000-25200	GASKET	8							
6	1	165000-26230	CLAMP	8							
7	1	165000-27520	SCREW, FLANGE	8							

Fig.86. FUEL FILTER



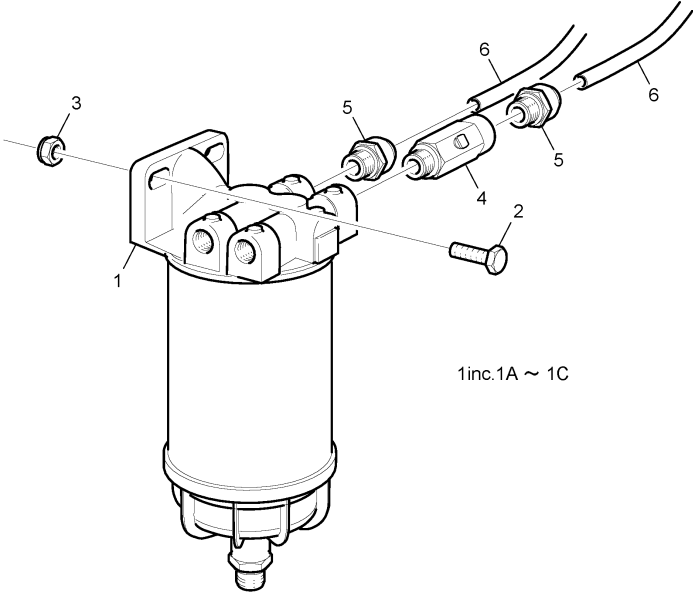
OCR10-G57801 86. FUEL FILTER

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-31570	HEAD, FILTER	1							
2	1	165000-34500	FILTER, FUEL	1							
2-1	1	165001-31070	FILTER, FUEL	1							N
(A=E*****)											
3	1	165000-30920	PLUG, M16X1.5X9	1							
4	1	165000-27780	SEAL	1							
5	1	165000-26930	SCREW, M10X30	2							



REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-27300	PIPE, EXHAUST	1							
1A	2	165001-27310	FLANGE	1							
1B	2	165001-26440	V-CLAMP	1							

Fig.88. FUEL FILTER, WATER SEPARATOR



1inc.1A ~ 1C

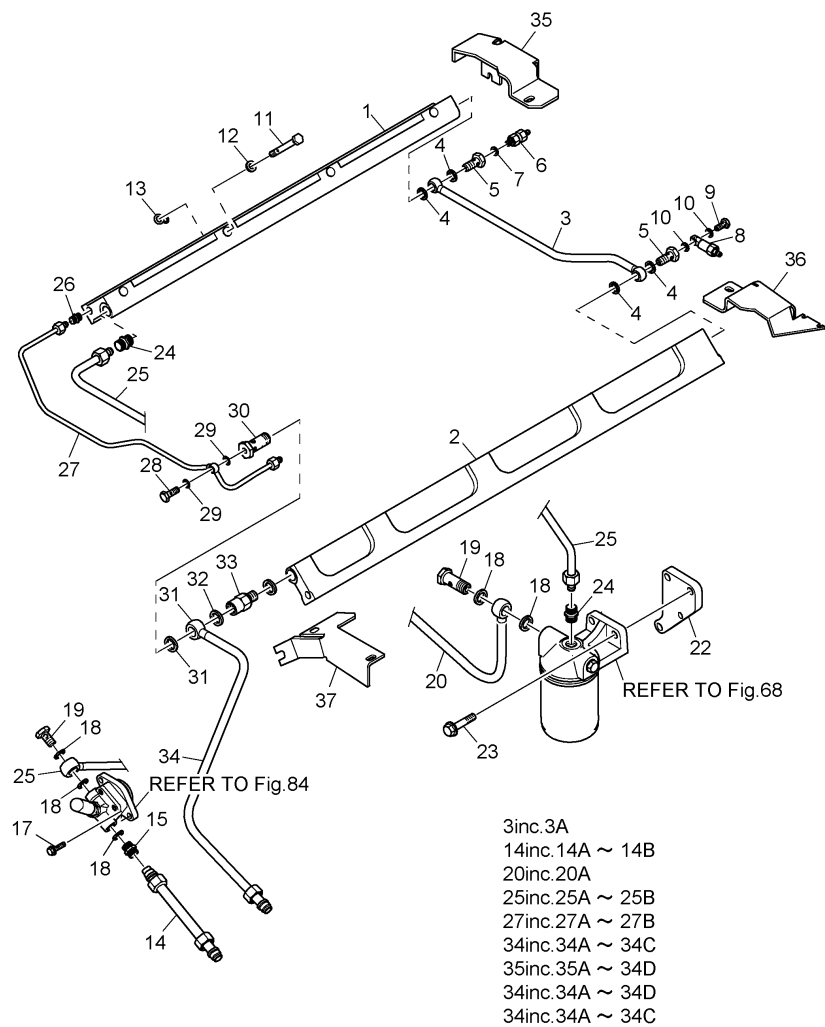
109168

Remarks
(1)UNIT OF METER

OCR10-G57801 88. FUEL FILTER, WATER SEPARATOR

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-30600	FILTER ASSY, UNIT	1							
1A	2	165000-25000	ELEMENT, FILTER	1							
1B	2	165000-31560	HEAD, FILTER	1							
1C	2	165000-31880	BOWL	1							
1D	2	165000-31870	BOWL, W/HEATER	1							
2	1	165000-26960	SCREW, M10X40	2							
3	1	165000-32840	NUT, LOCK M10	2							
4	1	165000-28510	TAP, DRAIN	1							
4A	1	165000-25590	GASKET, 16.5X19.9	1							
5	1	165000-26490	CONNECTOR	2							
5-1	1	165000-58920	CONNECTOR, INSERT	2						N	
(A=E*****)											
6	1	165000-29220	PIPE 12X1.5	999							1
I 6A	1	165000-28310	SLEEVE, INSERT	2							
I 6B	1	165000-26130	FERRULE, 12	2							
I 6C	1	165000-32490	NUT, UNION M12	2							

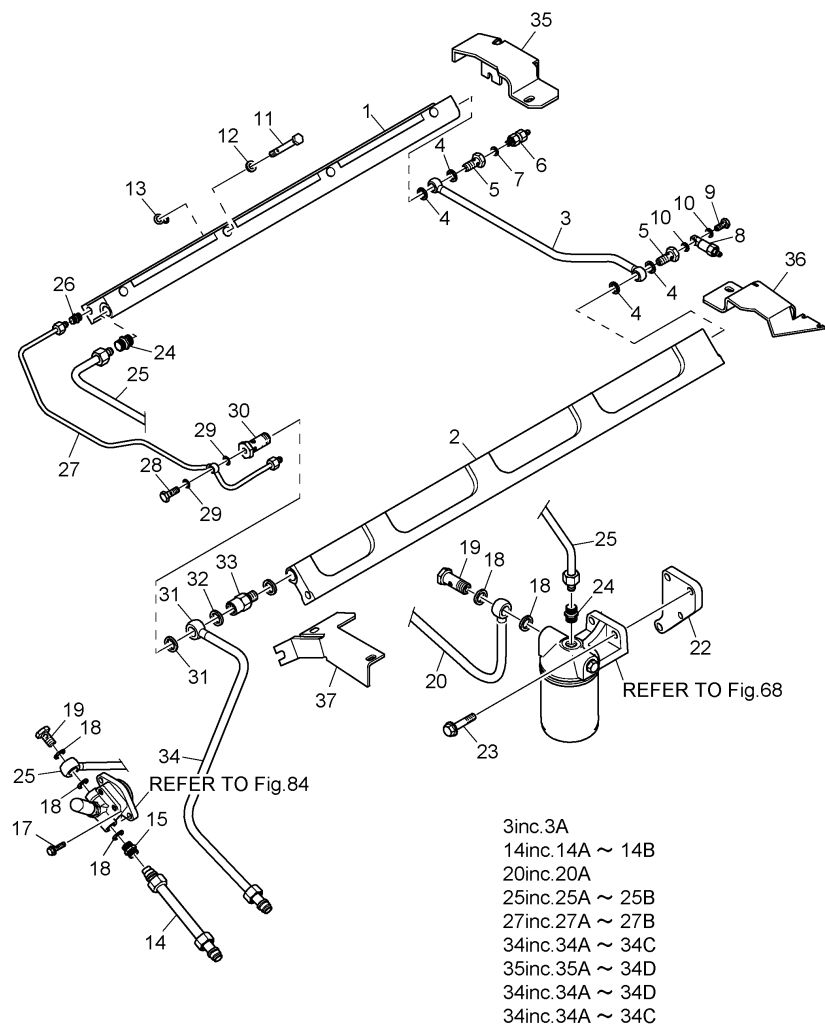
Fig.89. FUEL MANIFOLD



136568

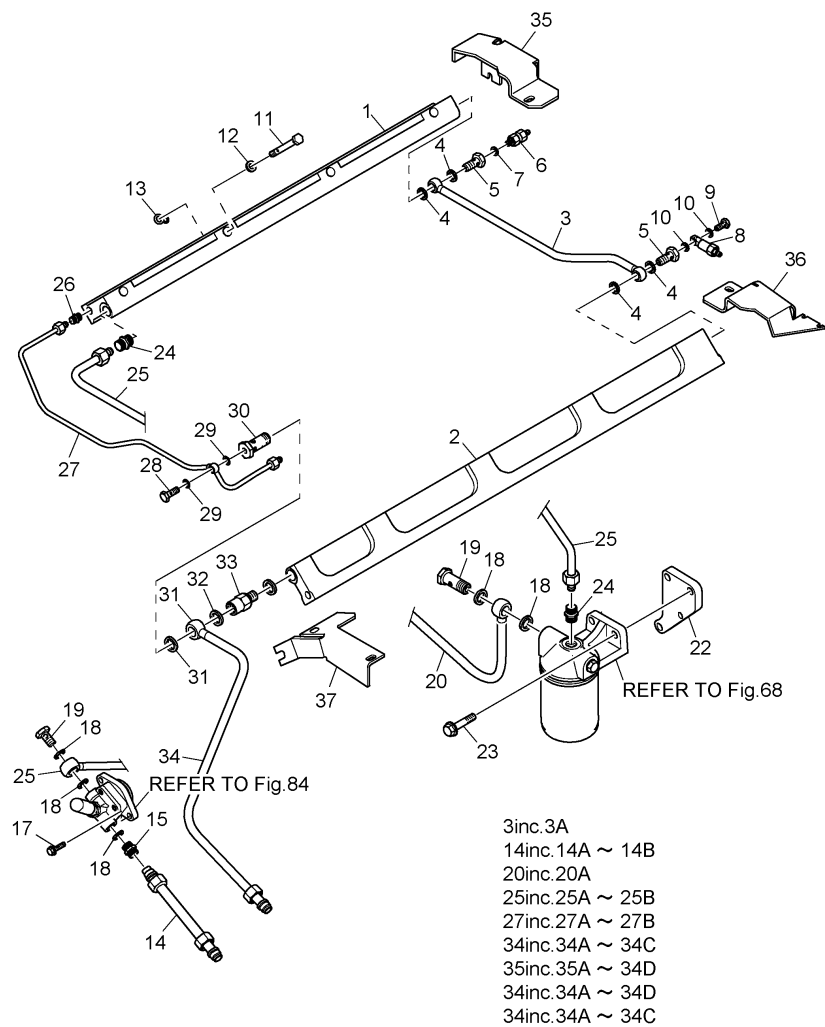
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-32050	MANIFOLD, FUEL	1							
2	1	165000-32050	MANIFOLD, FUEL	1							
3	1	165000-29550	PIPE	1							
I 3A	2	165000-32260	UNION, BANJO	2							
4	1	165000-27820	SEAL	4							
4-1	1	165000-93550	WASHER, SEAL	4							N
(A=E*****)											
5	1	165000-26820	SCREW, BANJO	2							
6	1	165000-29090	NIPPLE, BLEEDER	1							
7	1	165000-27750	SEAL	1							
8	1	165000-29100	NIPPLE, BLEEDER	1							
9	1	165000-26880	SCREW, M10X1	1							
10	1	165000-27810	SEAL	2							
10-1	1	165000-93540	WASHER, SEAL	2							N
(A=E*****)											
11	1	165000-26790	SCREW	8							
12	1	165000-27800	WASHER, SEAL	8							
12-1	1	165000-93520	WASHER, SEAL	8							
13	1	165000-25170	GASKET	8							
14	1	165000-29390	PIPE	1							
I 14A	2	165000-32490	NUT, UNION M12	2							
I 14B	2	165000-26130	FERRULE, 12	2							
15	1	165000-32290	UNION, STRAIGHT	1							
17	1	165000-27360	SCREW, M8X30	2							
18	1	165000-27820	SEAL	5							
18-1	1	165000-93550	WASHER, SEAL	5							N
(A=E*****)											
19	1	165000-27140	SCREW, M16X1.5	2							
20	1	165000-29370	PIPE	1							
I 20A	2	165000-32260	UNION, BANJO	2							
22	1	165000-30970	BRACKET, DIPSTICK F	1							
23	1	165000-26930	SCREW, M10X30	2							
24	1	165000-32290	UNION, STRAIGHT	2							
25	1	165000-29400	PIPE	1							
I 25A	2	165000-32490	NUT, UNION M12	2							
I 25B	2	165000-26130	FERRULE, 12	2							
26	1	165000-26480	CONNECTOR	2							
26-1	1	165000-37700	UNION, STRAIGHT	2							N
(A=E*****)											
27	1	165000-29640	PIPE ASSY, LEAK-OFF	1							
I 27A	2	165000-32510	NUT, UNION M6	2							
I 27B	2	165000-26150	FERRULE, 6	2							
28	1	165000-26840	SCREW, BANJO	1							
29	1	165000-27800	SEAL	2							
29-1	1	165000-93520	WASHER, SEAL	2							N
(A=E*****)											
30	1	165000-26830	SCREW, BANJO	1							
31	1	165000-27820	SEAL	2							
31-1	1	165000-93550	WASHER, SEAL	2							N
(A=E*****)											
32	1	165000-30280	VALVE	1							

Fig.89. FUEL MANIFOLD



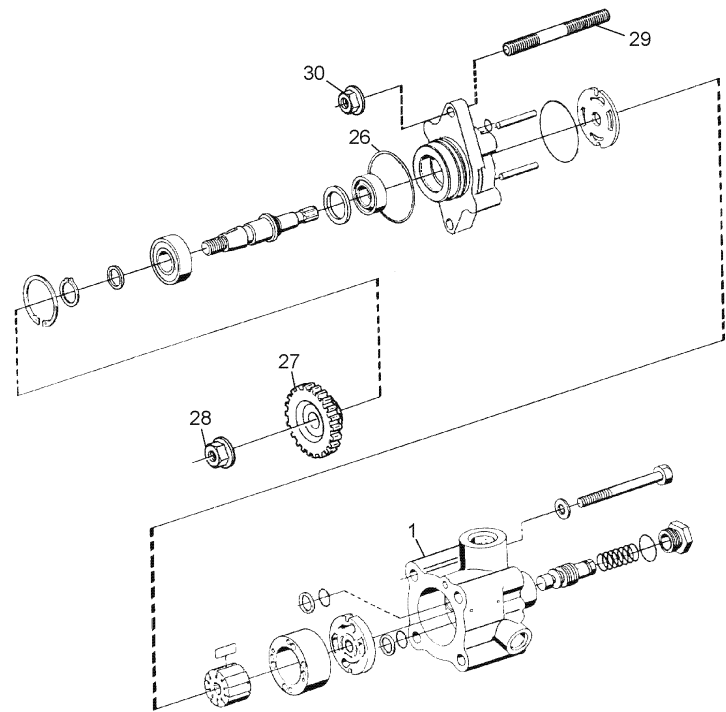
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
32-1	1	165001-31080	VALVE, OVERFLOW	1							N
		(A=E*****)									
33	1	165000-27780	SEAL	1							
34	1	165000-29380	PIPE	1							
I 34A	2	165000-32260	UNION, BANJO	1							
I 34B	2	165000-32490	NUT, UNION M12	1							
I 34C	2	165000-26130	FERRULE, 12	1							
35	1	165000-50950	COVER, PROTECTION	1							
35A	1	165000-27270	SCREW, M8X12	1							
35B	1	165000-26190	CLAMP, 12	1							
35C	1	165000-27300	SCREW, M8X20	1							
35D	1	165000-29040	NUT, FLANGE M8	1							
36	1	165000-50960	COVER, PROTECTION	1							
36A	1	165000-27270	SCREW, M8X12	2							
36B	1	165000-26190	CLAMP, 12	1							
36C	1	165000-27300	SCREW, M8X20	1							
36D	1	165000-29040	NUT, FLANGE M8	1							
37	1	165000-50970	COVER, PROTECTION	1							
37A	1	165000-26190	CLAMP, 12	2							
37B	1	165000-27300	SCREW, M8X20	3							
37C	1	165000-29040	NUT, FLANGE M8	2							

Fig.90. FUEL MANIFOLD



REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-32050	MANIFOLD, FUEL	1							
2	1	165000-32050	MANIFOLD, FUEL	1							
3	1	165000-29550	PIPE	1							
4	1	165000-93550	WASHER, SEAL	4							
5	1	165000-26820	SCREW, BANJO	2							
6	1	165000-29090	NIPPLE, BLEEDER	1							
7	1	165000-27750	SEAL	1							
8	1	165000-29100	NIPPLE, BLEEDER	1							
9	1	165000-26880	SCREW, M10X1	1							
10	1	165000-93540	WASHER, SEAL	2							
11	1	165000-26790	SCREW	8							
12	1	165000-93520	WASHER, SEAL	8							
13	1	165000-25170	GASKET	8							
14	1	165000-29390	PIPE	1							
15	1	165000-32290	UNION, STRAIGHT	1							
17	1	165000-27360	SCREW, M8X30	2							
18	1	165000-93550	WASHER, SEAL	5							
19	1	165000-27140	SCREW, M16X1.5	2							
20	1	165000-29370	PIPE	1							
22	1	165000-30970	BRACKET, DIPSTICK F	1							
23	1	165000-26930	SCREW, M10X30	2							
24	1	165000-32290	UNION, STRAIGHT	2							
25	1	165000-29400	PIPE	1							
26	1	165000-37700	UNION, STRAIGHT	2							
27	1	165000-29640	PIPE ASSY, LEAK-OFF	1							
28	1	165000-26840	SCREW, BANJO	1							
29	1	165000-93520	WASHER, SEAL	2							
30	1	165000-26830	SCREW, BANJO	1							
31	1	165000-93550	WASHER, SEAL	2							
32	1	165001-31080	VALVE, OVERFLOW	1							
33	1	165000-27780	SEAL	1							
34	1	165000-29380	PIPE	1							
35	1	165000-50950	COVER, PROTECTION	1							
36	1	165000-50960	COVER, PROTECTION	1							
37	1	165000-50970	COVER, PROTECTION	1							
38	1	165001-41410	HOSE CMP	2							
39	1	165000-26130	FERRULE, 12	2							
40	1	165000-32490	NUT, UNION M12	2							
41	1	165000-27770	SEAL	2							

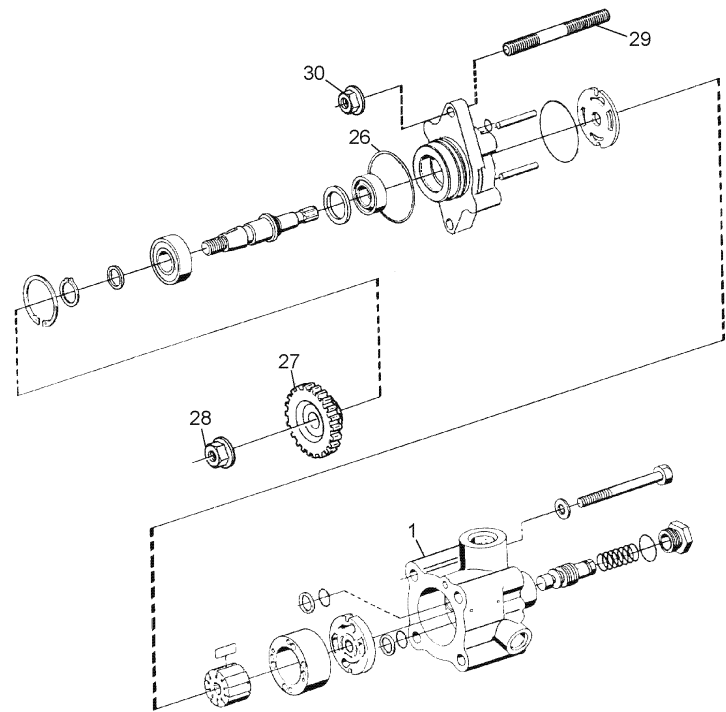
Fig.91. HYDRAULIC PUMP, 16L (OPTION)



OCR10-G57801 91. HYDRAULIC PUMP, 16L (OPTION)

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-32120	PUMP ASSY, HYDRAULIC	1							
26	1	165000-24640	O-RING, 64.5X3	1							
27	1	165000-49010	GEAR	1							
28	1	165000-28970	NUT, FLANGE M14X1,5	1							
29	1	165000-49630	STUD, M10X50	2							
30	1	165000-28870	NUT, FLANGE M10	2							

Fig.92. HYDRAULIC PUMP, 22L (OPTION)

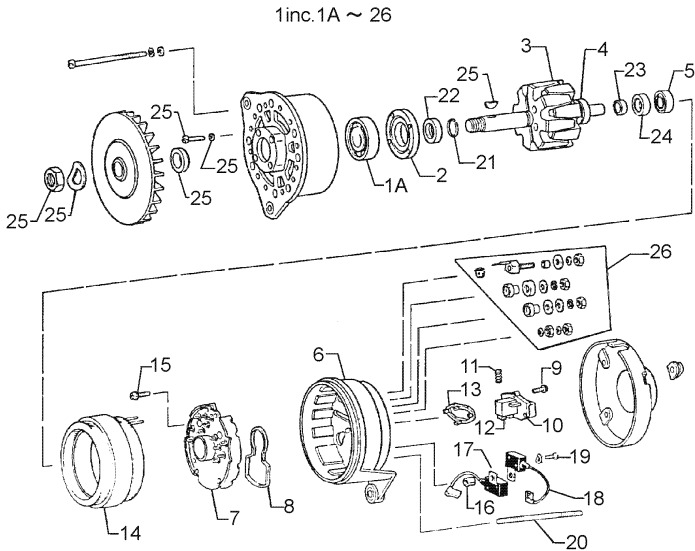


OCR10-G57801 92. HYDRAULIC PUMP, 22L (OPTION)

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-32150	PUMP ASSY, HYDRAULIC	1							
1-1	1	165000-73810	PUMP ASSY, HYDRAULIC	1							
26	1	165000-24640	O-RING, 64.5X3	1							
27	1	165000-49010	GEAR	1							
28	1	165000-28970	NUT, FLANGE M14X1,5	1							
29	1	165000-49630	STUD, M10X50	2							
30	1	165000-28870	NUT, FLANGE M10	2							

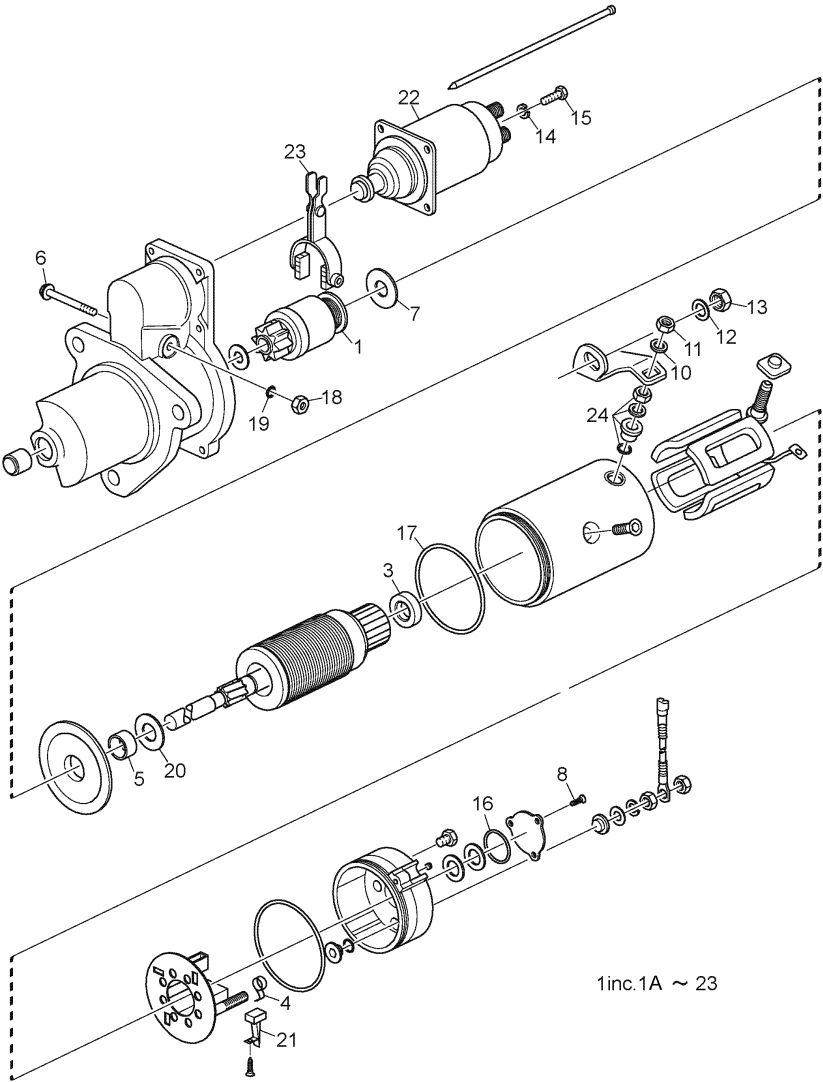


25784

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-25090	ALTERNATOR	1							
I 1A	2	165000-31960	BEARING, BALL	1							
2	2	165000-33040	WASHER, COVER	1							
3	2	165000-32740	ROTOR	1							
4	2	165000-27910	RING, SLIP	1							
5	2	165000-32910	BEARING, ROLLER	1							
7	2	165000-32560	RECTIFIER	1							
8	2	165000-27870	SEAL	1							
9	2	165000-26760	SCREW	3							
10	2	165000-32730	REGULATOR, CHARGE	1							
11	2	165000-28130	SPRING	1							
12	2	165000-31210	BRUSH, CARBON	1							
13	2	165000-27860	SEAL	1							
15	2	165000-26640	SCREW	3							
17	2	165000-27560	CONDENSER	1							
18	2	165000-27550	CONDENSER	1							
20	2	165000-26800	SCREW	4							
21	2	165000-28110	RING, SNAP	1							
22	2	165000-32650	RING, SPACING	1							
23	2	165000-32640	RING, SPACING	1							
24	2	165000-27930	RING, SEALING	1							
25	2	165000-24800	ALTERNATOR KIT	1							
26	2	165000-24790	ALTERNATOR KIT	1							



Fig.95. STARTER MOTOR, FITTING PARTS



1inc.1A ~ 23

126682

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-29830	STARTER ASSY	1							
1A	2	165000-30440	PINION, STARTER	1							
2	2	165000-29110	BEARING, NEEDLE	1							
3	2	165000-31950	BEARING, BALL	1							
4	2	165000-28170	SPRING, COMPRESSION	4							
5	2	165000-29120	BRARING, NEEDLE	1							
6	2	165000-26770	SCREW	1							
7	2	165000-33010	WASHER	1							
8	2	165000-26710	SCREW	3							
8-1	2	165000-26630	SCREW	3						N	
(A=E*****)											
9	2	165000-26630	SCREW	4							
10	2	165000-33060	WASHER, 10.2	2							
11	2	165000-28900	NUT, HEXAGON M10	2							
12	2	165000-33080	WASHER, 12.2	1							
13	2	165000-28930	NUT, HEXAGON M12	1							
14	2	165000-33130	WASHER, 6.1	1							
15	2	165000-26740	SCREW	1							
16	2	165000-24500	O-RING	1							
17	2	165000-24440	O-RING	1							
18	2	165000-29050	NUT, HEXAGON M6	1							
19	2	165000-25390	GASKET	1							
20	2	165000-33020	WASHER	1							
21	2	165000-31220	BRUSH, CARBON	1							
22	2	165000-28000	SWITCH, SOLENOID	1							
23	2	165000-30610	FORK, SHAFT	1							
24	2	165000-32580	REPAIR KIT	1							

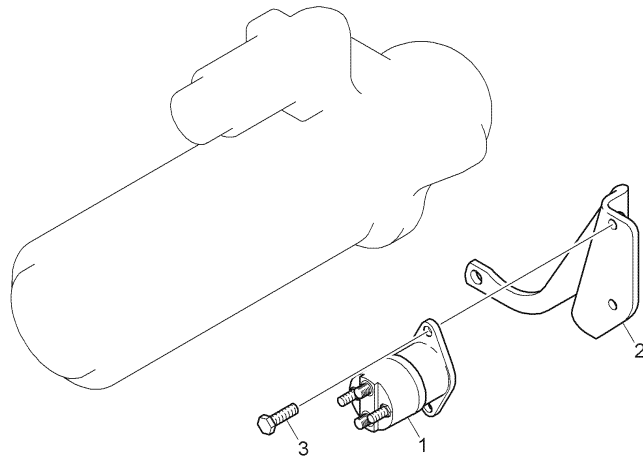
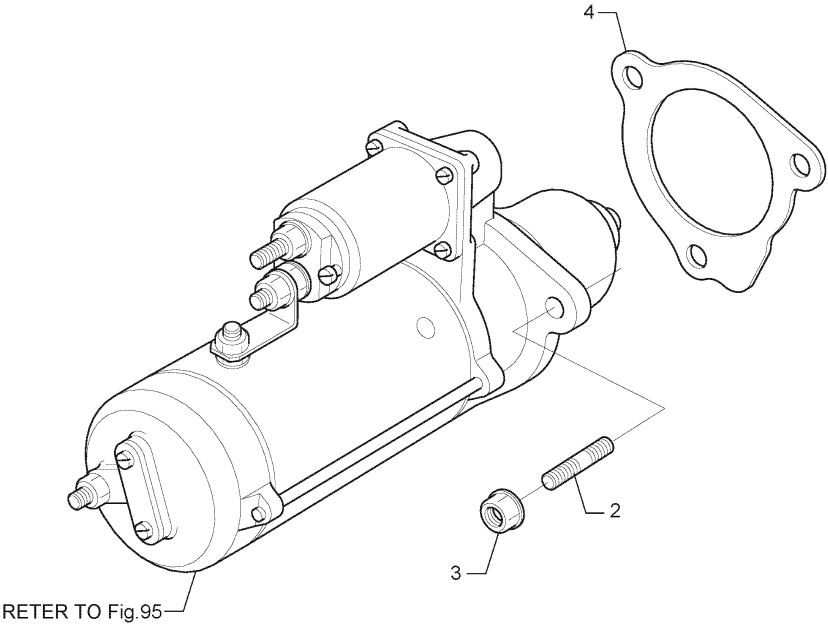
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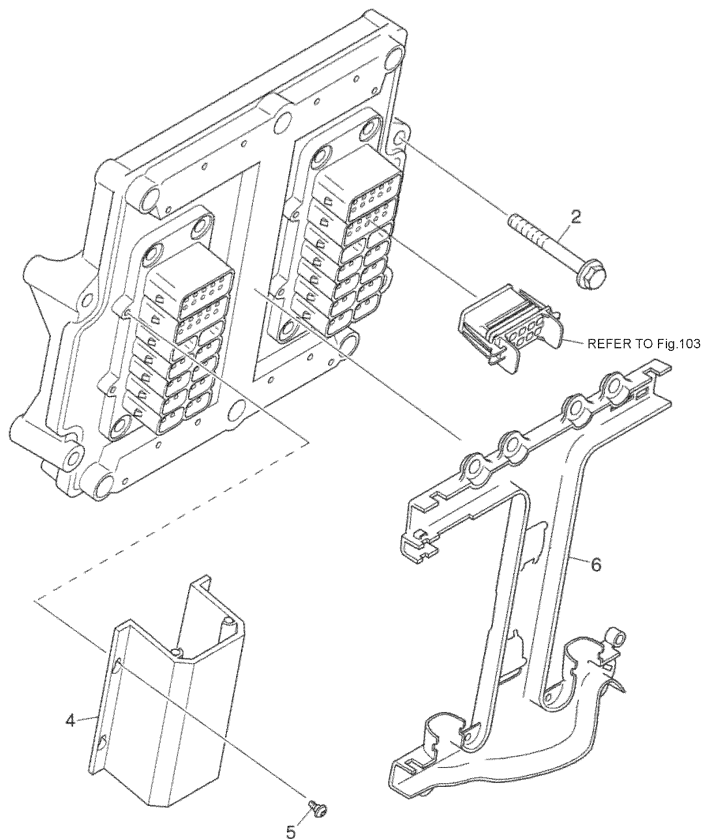
Fig.97. STARTER RELAY

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

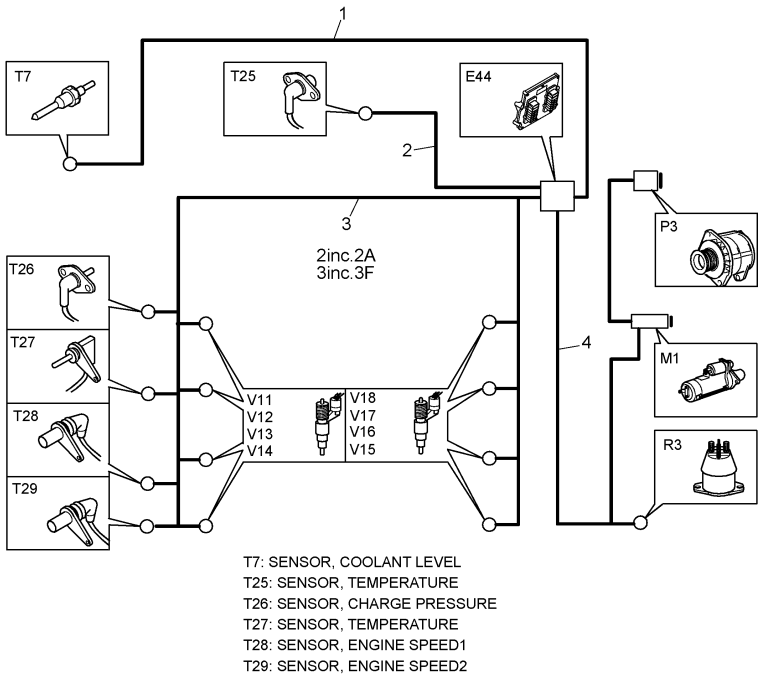
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	1	165000-28040	STUD	3							
2-1	1	165001-26620	STUD	3						N	
(A=E*****)											
3	1	165000-28950	NUT	3							
4	1	165000-31510	PLATE	1							





REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	1	165000-27430	SCREW	4							
2A	1	165000-27430 (A=E*****)	SCREW, M8X60	2							W
2B	1	165000-27460 (A=E*****)	SCREW, M8X70	2							W
4	1	165000-48920	COVER	2							
5	1	165000-27200	SCREW, M4X8	8							
6	1	165000-58720 (A=E*****)	DUCT	1							W
7	1	165001-27150 (A=E*****)	SCREW, FLANGE	8							W
7A	1	165000-28800 (A=E*****)	TIE, CABLE L=185X4.6	8							W
7B	1	165001-39280 (A=E*****)	TIE, CABLE	4							W

Fig.99. CABLE HARNESS(E1039758-)



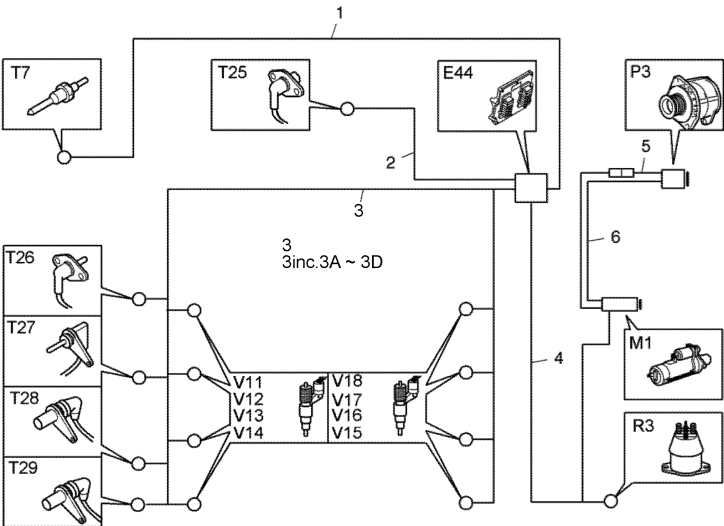
136755

Remarks

- (1)T25
- (2)INC T26,T27,T28,T29
- (3)T29

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-50200	HARNESS, CABLE	1							
2	1	165000-28340	SENSOR, TEMPERATURE	1							1
I 2A	1	165000-28350	SENSOR, TEMPERATURE	1							1
3	1	165000-30190	HARNESS ASSY, CABLE	1							2
3-1	1	165001-31430	HARNESS, CABLE	1						N	2
(A=E*****)											
I 3A	1	165000-28360	SENSOR, ENGINE SPEED	1							3
3B	1	165001-31130	SENSOR, BOOST PRESSU	1						N	2
(A=E*****)											
3C	1	165001-31510	SENSOR, TEMPERATURE	1							
3D	1	165001-31440	SENSOR, SPEED	1							
3F	1	165001-27420	SENSOR, SPEED	1							
4	1	165000-35030	HARNESS, CABLE	1							

Fig.100. CABLE HARNESS(E6513143-6513510)



T7: SENSOR, COOLANT LEVEL
T25: SENSOR, TEMPERATURE
T26: SENSOR, CHARGE PRESSURE
T27: SENSOR, TEMPERATURE
T28: SENSOR, ENGINE SPEED1
T29: SENSOR, ENGINE SPEED2

136755

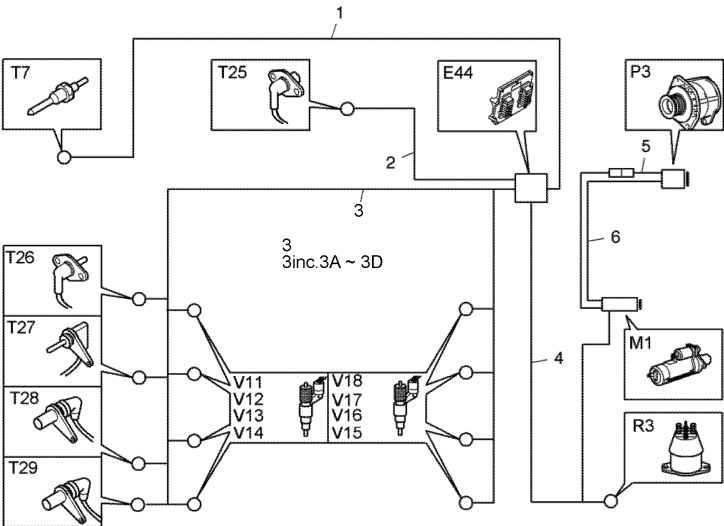
Remarks
(1)T25
(2)INC T26,T27,T28,T29
(3)T29

(A)=8SY-STP
(B)=
(C)=

(D)=
(E)=
(F)=

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-31100	REPAIR KIT	1							
1-1	1	165000-50200	HARNESS, CABLE	1							
2	1	165000-28340	SENSOR, OIL PRESSURE	1							
2-1	1	165000-28350	SENSOR, TEMPERATURE	1							
3	1	165001-31430	HARNESS, CABLE	1							
3A	1	165001-31130	SENSOR, BOOST PRESSU	1							
3B	1	165001-31510	SENSOR, TEMPERATURE	1							
3C	1	165001-31440	SENSOR, SPEED	1							
3D	1	165001-27420	SENSOR, SPEED	1							
4	1	165001-31450	HARNESS, CABLE	1							
5	1	165001-31170	HARNESS, CABLE	1							
6	1	165001-31460	HARNESS, CABLE	1							

Fig.101. CABLE HARNESS(E1039758-)



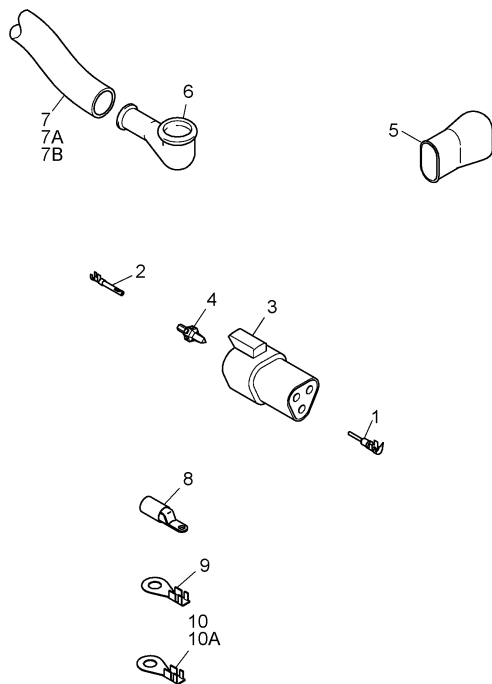
T7: SENSOR, COOLANT LEVEL
T25: SENSOR, TEMPERATURE
T26: SENSOR, CHARGE PRESSURE
T27: SENSOR, TEMPERATURE
T28: SENSOR, ENGINE SPEED1
T29: SENSOR, ENGINE SPEED2

146650

Remarks
(1)T25
(2)INC T26,T27,T28,T29
(3)T29

0CR10-G57801 101. CABLE HARNESS(E1039758-)

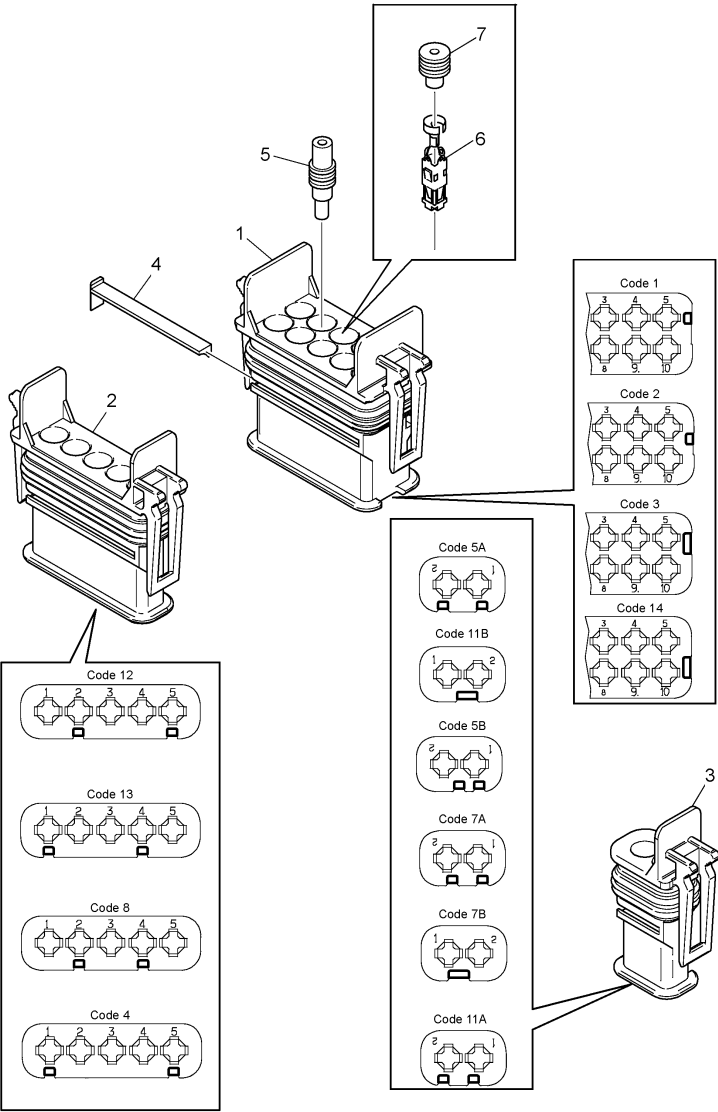
REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165001-31100	REPAIR KIT	1							
1-1	1	165000-50200	HARNESS, CABLE	1							
(A=E*****)											
2	1	165000-28340	SENSOR, OIL PRESSURE	1							
2-1	1	165000-28350	SENSOR, TEMPERATURE	1							
(A=E*****)											
3	1	165001-31430	HARNESS, CABLE	1							
3A	1	165001-31130	SENSOR, BOOST PRESSU	1							
3B	1	165001-31510	SENSOR, TEMPERATURE	1							
3C	1	165001-31440	SENSOR, SPEED	1							
3D	1	165001-27420	SENSOR, SPEED	1							
4	1	165001-31450	HARNESS, CABLE	1							
5	1	165001-31170	HARNESS, CABLE	1							
6	1	165001-31460	HARNESS, CABLE	1							



Remarks	(1) REQUIRE
---------	-------------

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-30560	PIN, CABLE TERMINAL	999							1
2	1	165000-28400	SOCKET, FLAT	999							1
3	1	165000-30080	HOUSING, CONTACT	1							
4	1	165000-32810	LOCK, WEDGE	999							1
5	1	165000-26330	CASE	999							1
6	1	165000-24900	INSULATOR	999							1
7	1	165000-28650	TUBE, SHRINK 16/4MM	999							1
7A	1	165000-28660	TUBE, SHRINK 24/6MM	999							1
7B	1	165000-28670	TUBE, SHRINK 32/8MM	999							1
8	1	165000-28430	SOCKET, FLAT	999							1
9	1	165000-28580	TERMINAL, CABLE	999							1
10	1	165000-32660	TERMINAL M4	999							1
10A	1	165000-32670	TERMINAL, CABLE M6	999							1

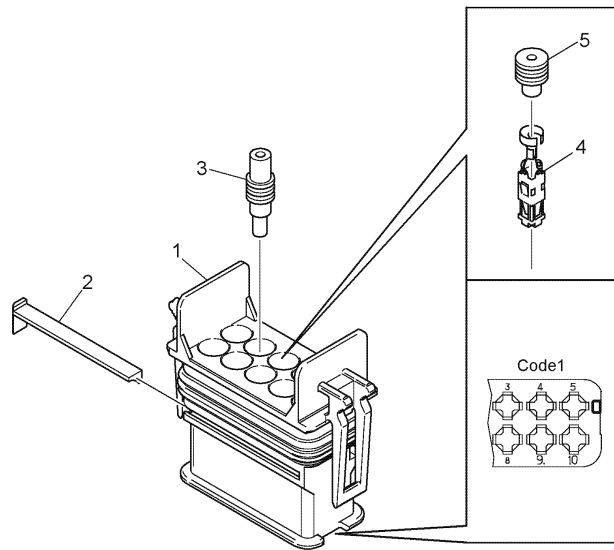
Fig.103. CONTACT HOUSING



126763

REF.	LEV.	PARTS NO.	DESCRIPTION	(A)=8SY-STP (B)= (C)=						(D)= (E)= (F)=						I	R
				(A)	(B)	(C)	(D)	(E)	(F)								
1	1	165000-29940	HOUSING, 10POL.1	999													1
1A	1	165000-29950	HOUSING, 10POL.2	999													1
1B	1	165000-29960	HOUSING, 10POL.3	999													1
1C	1	165000-29930	HOUSING, 10POL.0	999													1
1C-1	1	165000-53201	HOUSING, CONTACT	999											N		1
(A=E*****)																	
1D	1	165000-90830	HOUSING, CONTACT	999											W		1
(A=E*****)																	
2	1	165000-30040	HOUSING, 5POL.12	999													1
2A	1	165000-30050	HOUSING, 5POL.13	999													1
2B	1	165000-30030	HOUSING, 5POL.0	999													1
3	1	165000-29990	HOUSING, 2POL.7A	999													1
3A	1	165000-30000	HOUSING, 2POL.7B	999													1
3B	1	165000-29980	HOUSING, 2POL.11A	999													1
3C	1	165000-29970	HOUSING, 2POL.0	999													1
4	1	165000-30450	PIN	999													1
4A	1	165000-30460	PIN	999													1
5	1	165000-30760	PLUG	999													1
6	1	165000-28240	SLEEVE	6													
6A	1	165000-28390	SOCKET	3													
7	1	165000-27830	SEAL	999													1

Remarks
(1) REQUIRE



0CR10-G57801 104. CONTACT HOUSING KIT

(A)=8SY-STP

(B)=

(C)=

(D)=

(E)=

$$(F)=$$

REF.	LEV.	PARTS NO.	DESCRIPTION	QTY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-26580	CONNECTOR	1							
2	2	165000-30450	PIN	2							
3	2	165000-30760	PLUG	7							
4	2	165000-28240	SLEEVE	6							
5	2	165000-27830	SEAL	6							

REF.	LEV.	PARTS NO.	DESCRIPTION	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	165000-25550	GASKET, KIT	1							
1A	2	165000-24390	O-RING	1							
2	2	165000-24400	O-RING	1							
3	2	165000-24380	O-RING	1							
4	2	16500-28090	RING,SNAP	1							
5	2	16500-25270	GASKET	1							

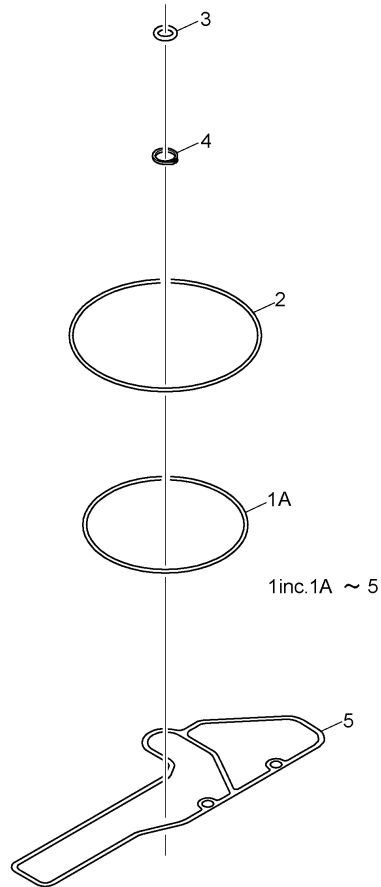
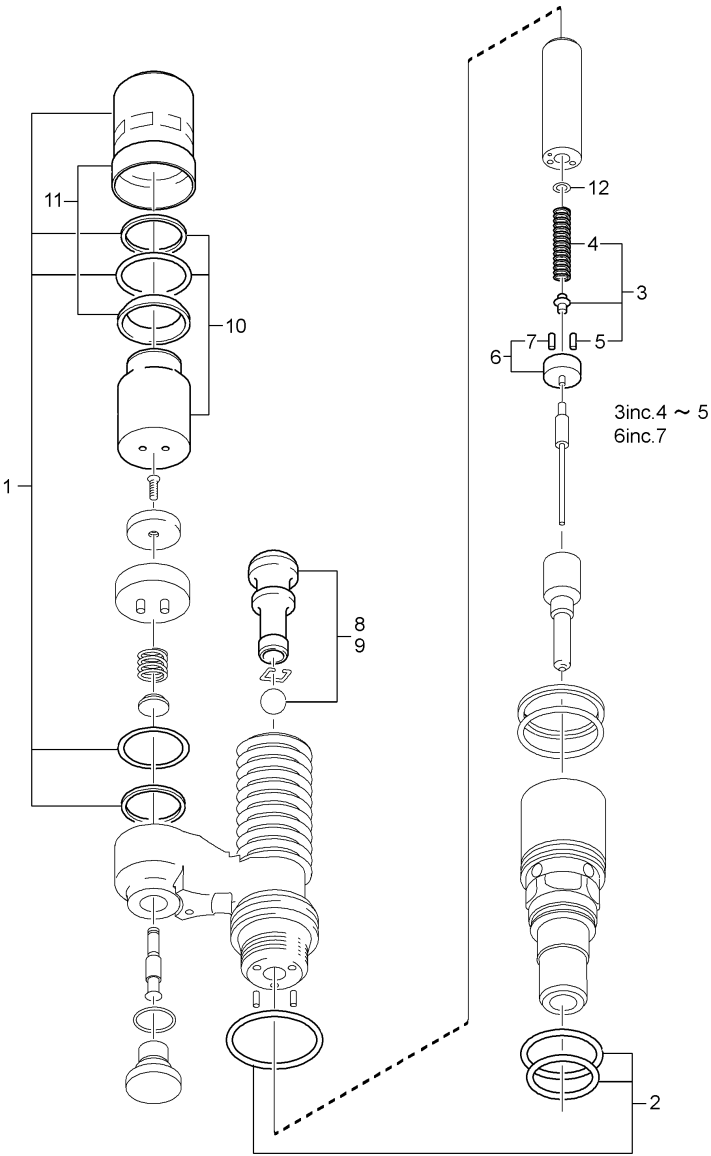


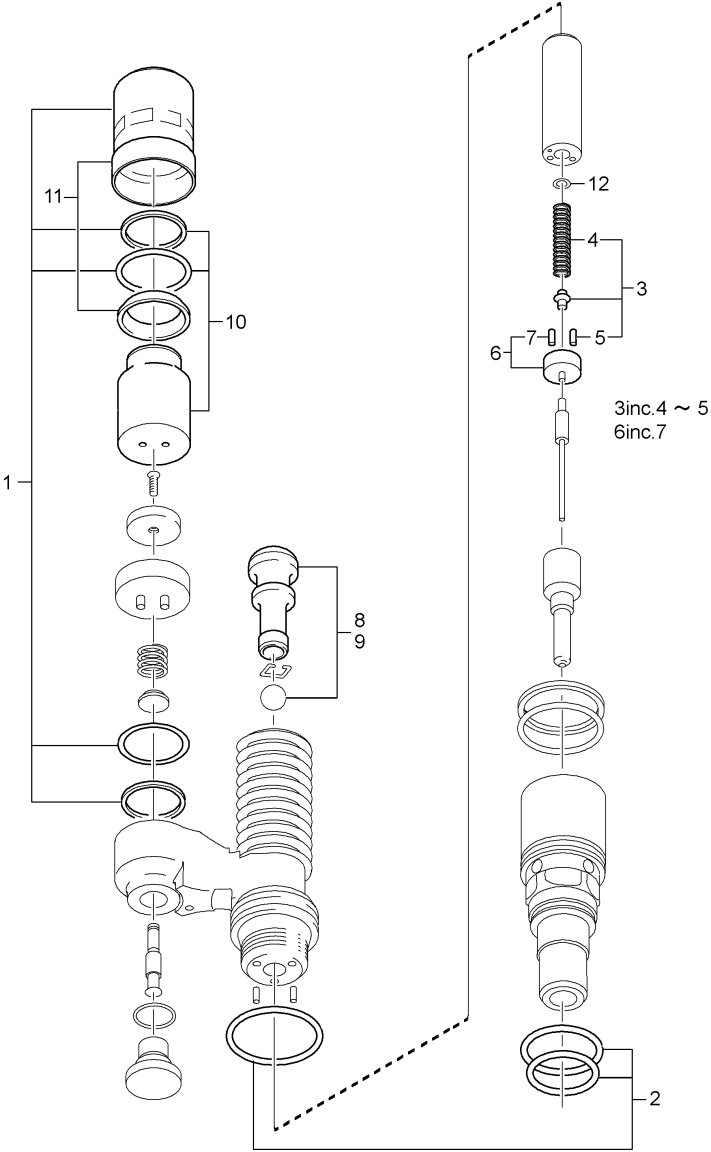
Fig.106. O-RING KIT, STATOR



144743

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-90240	REPAIR KIT	1							
2	1	165000-24490	O-RING KIT	1							
3	1	165000-90250	REPAIR KIT	1							
4	2	165000-90260	SPRING	1							
5	2	165000-90270	SPRING PIN	2							
6	1	165000-90280	REPAIR KIT	1							
7	2	165000-90270	SPRING PIN	2							
8	1	165000-30690	ROD ASSY, PUSH	1							
9	1	165000-90290	ROD,PUSH	1							
10	1	165000-90300	REPAIR KIT	1							
11	1	165000-90310	REPAIR KIT	1							
I 12A	1	165000-90320	SHIM=1.00MM	1							1
I 12AA	1	165000-90330	SHIM=1.02MM	1							1
I 12AB	1	165000-90340	SHIM=1.04MM	1							1
I 12AC	1	165000-90350	SHIM=1.06MM	1							1
I 12AD	1	165000-90360	SHIM=1.08MM	1							1
I 12AE	1	165000-90370	SHIM=1.10MM	1							1
I 12AF	1	165000-90380	SHIM=1.12MM	1							1
I 12AG	1	165000-90390	SHIM=1.14MM	1							1
I 12AH	1	165000-90400	SHIM=1.16MM	1							1
I 12AI	1	165000-90410	SHIM=1.18MM	1							1
I 12AJ	1	165000-90420	SHIM=1.20MM	1							1
I 12AK	1	165000-90430	SHIM=1.22MM	1							1
I 12AL	1	165000-90440	SHIM=1.24MM	1							1
I 12AM	1	165000-90450	SHIM=1.26MM	1							1
I 12AN	1	165000-90460	SHIM=1.28MM	1							1
I 12AO	1	165000-90470	SHIM=1.30MM	1							1
I 12AP	1	165000-90480	SHIM=1.32MM	1							1
I 12AQ	1	165000-90490	SHIM=1.34MM	1							1
I 12AR	1	165000-90500	SHIM=1.36MM	1							1
I 12AS	1	165000-90510	SHIM=1.38MM	1							1
I 12AT	1	165000-90520	SHIM=1.40MM	1							1
I 12AU	1	165000-90530	SHIM=1.42MM	1							1
I 12AV	1	165000-90540	SHIM=1.44MM	1							1
I 12AW	1	165000-90550	SHIM=1.46MM	1							1
I 12AX	1	165000-90560	SHIM=1.48MM	1							1
I 12B	1	165000-90570	SHIM=1.50MM	1							1
I 12C	1	165000-90580	SHIM=1.52MM	1							1
I 12D	1	165000-90590	SHIM=1.54MM	1							1
I 12E	1	165000-90600	SHIM=1.56MM	1							1
I 12F	1	165000-90610	SHIM=1.58MM	1							1
I 12G	1	165000-90620	SHIM=1.60MM	1							1
I 12H	1	165000-90630	SHIM=1.62MM	1							1
I 12I	1	165000-90640	SHIM=1.64MM	1							1
I 12J	1	165000-90650	SHIM=1.66MM	1							1
I 12K	1	165000-90660	SHIM=1.68MM	1							1
I 12L	1	165000-90670	SHIM=1.70MM	1							1
I 12M	1	165000-90680	SHIM=1.72MM	1							1
I 12N	1	165000-90690	SHIM=1.74MM	1							1
I 12O	1	165000-90700	SHIM=1.76MM	1							1
I 12P	1	165000-90710	SHIM=1.78MM	1							1

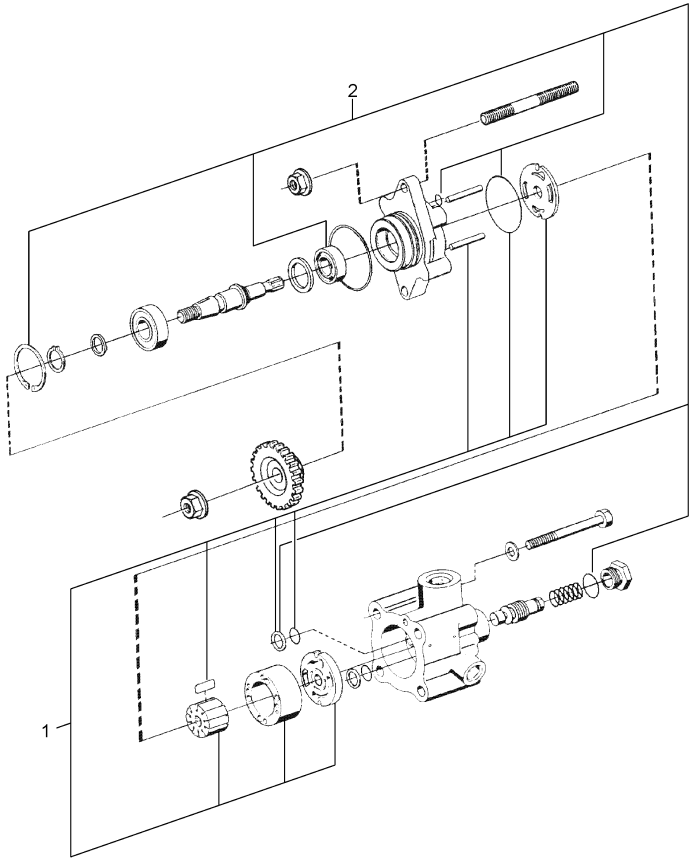
Fig.106. O-RING KIT, STATOR



144743

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
I	12Q	1	165000-90720	SHIM=1.80MM	1						1
I	12R	1	165000-90730	SHIM=1.82MM	1						1
I	12S	1	165000-90740	SHIM=1.84MM	1						1
I	12T	1	165000-90750	SHIM=1.86MM	1						1
I	12U	1	165000-90760	SHIM=1.88MM	1						1
I	12V	1	165000-90770	SHIM=1.90MM	1						1
I	12W	1	165000-90780	SHIM=1.92MM	1						1
I	12X	1	165000-90790	SHIM=1.94MM	1						1
I	12Y	1	165000-90800	SHIM=1.96MM	1						1
I	12Z	1	165000-90810	SHIM=1.98MM	1						1

Fig.107. REPAIR KIT, HYDRAULIC PUMP

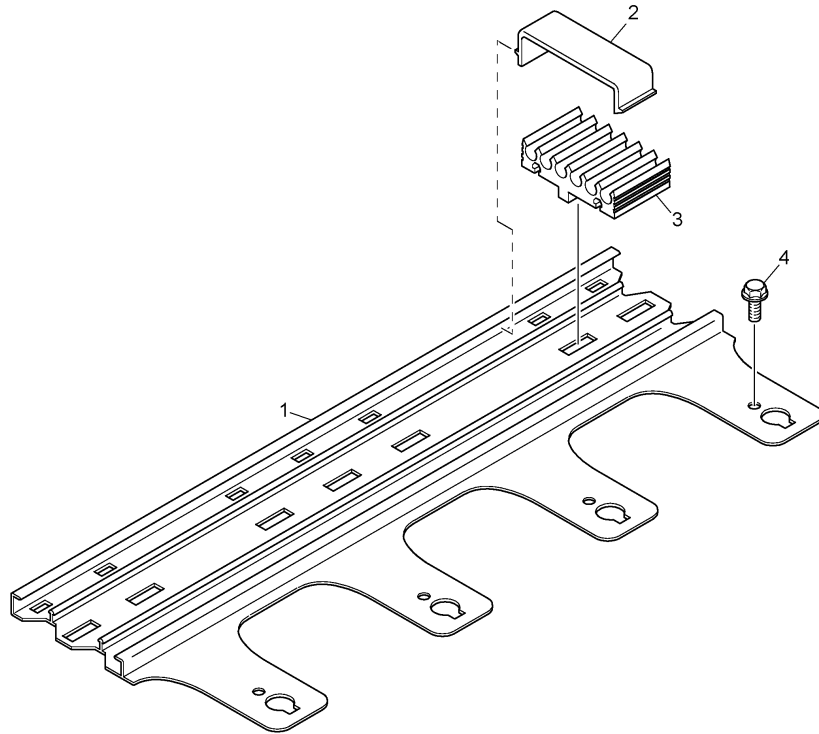


01850

Remarks
(1)INC.1.1-10
(2)INC.1.1,2,8,10-13

OCR10-G57801 107. REPAIR KIT, HYDRAULIC PUMP

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-24870	INSERT	1							1
2	2	165000-27880	SEAL KIT	1							2



(A)=8SY-STP

$$(B)=$$

(C)=

(D)=

$$(E)=$$
$$(F)=$$

REF.	LEV.	PARTS NO.	DESCRIPTION	Q'TY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	165000-50380	DUCT	2							
2	1	165000-26270	CLAMP	14							
3	1	165000-30640	BUSH	14							
4	1	165000-27240	SCREW, M6X16	8							

Part Number Index

All parts are stipulated in the order of part numbers.

(Depending on the area in which the part is used.)

This index will display the location of the part according to each part number.

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165000-24390	32	16
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165000-24400	32	18
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165000-24410	63	4
	64	4
	72	24
	73	3
165000-24430	7	29
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	9	29
	10	29
	11	29
	30	16
165000-24440	95	17
165000-24450	16	8
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	18	8
	47	5
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	106	2
165000-24500	95	16
165000-24510	7	14
	8	14
	9	14
165000-24520	14	12
	15	21
	43	8
		16
165000-24530	16	18
	17	18
	18	17
165000-24540	7	15
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	11	15
165000-24550	29	10
165000-24560	19	10
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165000-24600	41	20
	63	9
	64	9
	72	3
	73	19
165000-24610	72	33
165000-24620	41	21
165000-24630	30	13
	84	1 B
165000-24640	91	26
	92	26
165000-24650	31	13
	43	33
	63	23
	64	23
165000-24660	43	29
165000-24670	43	23
165000-24690	43	20
		26
165000-24740	51	11
	52	8
	53	8
	54	8
	55	8
	56	8
165000-24790	93	26
165000-24800	93	25
165000-24820	80	5
165000-24860	22	2
165000-24870	107	1
165000-24880	85	1
165000-24890	44	8
165000-24900	102	6
165000-24920	43	4
	65	1
165000-24980	32	5
165000-24990	32	4
165000-25000	88	1 A
165000-25020	31	1
165000-25030	32	8
165000-25050	22	1
165000-25060	29	1
165000-25080	23	5
	24	5
	25	5
165000-25090	93	1

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165000-25160	15	15
165000-25170	89	13
	90	13
165000-25190	14	8
	79	2
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	20	9
	21	9
165000-25250	69	12
	70	2
165000-25260	69	11
	70	3
165000-25270	32	23
165000-25280	30	8
165000-25290	30	3
165000-25300	41	4
		14
165000-25310	30	9
165000-25320	22	9
	37	10
	38	2
	39	2
165000-25330	31	12
	36	9
165000-25340	14	4
165000-25360	69	2
165000-25370	16	15
	17	15
165000-25380	43	14
165000-25390	95	19
165000-25400	32	6
165000-25410	41	18
165000-25420	33	16
	34	7
165000-25430	14	3
165000-25450	30	2
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165000-25500	72	35
165000-25510	1	10
165000-25520	68	3
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165000-25540	22	3
165000-25550	105	1
165000-25560	76	10
	77	10
	78	10
165000-25570	57	4
		8
	58	10
165000-25580	7	26
	9	26
165000-25590	37	8
	88	4 A
165000-25600	57	11
	58	4
	62	5 -1
165000-25610	4	9
	15	9
165000-25620	40	1
165000-25630	44	13
	72	22
165000-25650	30	5
165000-25690	16	10
	17	10
	18	10
165000-25710	14	7
165000-25720	32	17
165000-25740	16	13
	17	13
	18	13
165000-25750	7	19
	8	19
	9	19
	10	19
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	20	2
165000-25770	32	2
165000-25780	30	6
165000-25800	7	31
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165000-25820	68	1
165000-25830	7	22
	8	22
	9	22
165000-25840	41	15
165000-25850	41	5
165000-25860	66	11
	67	11
165000-25920	1	14
165000-25930	1	18
165000-25940	48	6
	50	2
165000-25960	28	18
165000-25970	47	1
165000-25980	15	2
165000-25990	28	25
165000-26000	28	31
165000-26020	28	10
165000-26030	28	8
165000-26040	28	17
165000-26050	28	24
165000-26060	28	7
165000-26080	27	15
165000-26090	57	2
	58	2
165000-26120	2	8
165000-26130	33	3
		6
	38	6
	40	15
	88	6 B
	89	14 B
		25 B
		34 C
	90	39
165000-26140	80	12
		15
	81	9
		12
	82	11
		14
165000-26150	89	27 B
165000-26160	76	1 B
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		3 B
		4 B
		5 B
		6 B
		22 B

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	77	2 B
		4 B
		5 B
		6 B
		14 B
		22 B
		24 B
		25 B
		26 B
	78	2 B
		4 B
		5 B
		6 B
		14 B
		22 B
		24 B
		25 B
		26 B
165000-26170	27	7 -1
165000-26180	27	7
165000-26190	39	12
	89	35 B
		36 B
		37 A
165000-26210	76	25
	77	29
	78	29
165000-26230	85	6
165000-26270	108	2
165000-26280	76	16
	77	16
	78	16
165000-26290	33	9
	40	11
	77	28
	78	28
165000-26310	76	21 -1
	77	23
	78	23
165000-26330	102	5
165000-26360	94	8
165000-26380	15	1
165000-26400	80	2
165000-26440	39	10
165000-26450	38	9
165000-26480	89	26
165000-26490	88	5
165000-26570	76	11
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165000-26580	104	1
165000-26590	40	28 A
165000-26600	40	28
165000-26610	27	2
165000-26620	36	15
	63	13
	64	13
	73	44
165000-26630	95	8 -1
		9
165000-26640	93	15
165000-26650	7	7
	8	7
	9	7
	10	5
	11	5
165000-26670	1	21
165000-26680	27	10
165000-26690	45	5
165000-26700	27	20
165000-26710	95	8
165000-26720	94	5
165000-26740	95	15
165000-26750	27	3
165000-26760	93	9
165000-26770	95	6
165000-26780	7	8
	8	8
	9	8
	10	6
	11	6
165000-26790	89	11
	90	11
165000-26800	93	20
165000-26810	76	9
	77	9
	78	9
165000-26820	89	5
	90	5
165000-26830	89	30
	90	30
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	90	28
165000-26850	1	25
165000-26860	76	8
	77	8
	78	8
165000-26870	7	18
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165000-26880	89	9
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165000-26890	43	10
165000-26900	41	17
165000-26910	19	36
	20	36
	21	30
	71	3
	73	10
	82	3
165000-26930	16	6
		9
		17
	17	6
		9
		17
	18	6
		9
		16
	46	4
	47	7
	51	8
	86	5
	89	23
	90	23
165000-26960	88	2
165000-26970	28	9
		32
165000-26990	14	6
	43	11
165000-27000	14	5
	16	5
	17	5
	18	5
	40	20
	66	5
		12
	67	5
		12
165000-27020	94	4
165000-27030	51	9
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	54	6
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165000-27060	63	3
	64	3
	72	39
165000-27070	40	10
165000-27100	66	2
	67	2
	72	40 A
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		57
165000-27110	51	12
165000-27130	27	13
165000-27140	89	19
	90	19
165000-27150	45	2
		8 -1
165000-27160	45	7
165000-27170	28	15
165000-27200	98	5
165000-27210	76	17
	77	17
		30 B
	78	17
		30 A
165000-27220	43	9
		17
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	17	20
		21
	18	19
		20
	19	5
	20	5
	21	5
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		13
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	19	11
		30
	20	11
		30
	21	11
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		41 A
		42 A
		43 A
		48
	73	22 A
	74	16
	77	23 A
	78	23 A
	89	35 A
		36 A
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	72	37 A
		55
165000-27290	7	30
	8	30
	9	30
	10	21
	11	21
	33	8
	43	6
	52	4
	53	4
	54	4
	55	4
	56	4
165000-27300	12	3
	16	11
	17	11
	18	11
	19	7
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	39	14
	41	16
	43	19
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	64	24
	72	30 A
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		13
	41	16 -1
	44	16
	80	4 B
	82	24
165000-27350	43	25
	72	12 C
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165000-27360	3	6
	4	6
	5	6
	6	6
	7	33
	8	33
	9	33
	10	33
	11	33
	15	16
	19	34
	20	34
	21	28
	29	6
		8
		9
	32	7
	33	15 -1
		24
	34	6
		15
	37	11
	38	3
	39	3
	43	22
	62	16
	70	4 A
	72	53
	84	3
	89	17
	90	17
165000-27380	33	15
	43	30
	75	21
165000-27390	31	8
	36	12
	60	8
	63	18

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	73	42
	75	12 A
165000-27400	7	21
		24
	8	21
		24
	9	21
		24
	10	21 A
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	11	21 A
		24
	19	8
	20	8
	21	8
	30	7
		10
		14
	31	15
	32	25
	43	12
	60	16
	61	11
	64	26
	69	9
	70	5
165000-27410	2	4
	3	3
	4	3
	5	3
	6	3
	44	7
	72	13 A
		34 B
		51
165000-27420	36	16
	63	12
	64	12
	73	45
165000-27430	15	17
	29	7
	32	24
	43	13 -1
		13 A
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	64	10
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	69	10
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165000-27460	30	4
	61	10
	98	2 B
165000-27480	43	30 A
	72	30 B
		34 A
		54
165000-27500	1	27
		30
165000-27510	2	6
165000-27520	85	7
165000-27530	94	6
165000-27540	80	19
	81	17
	82	18
165000-27550	93	18
165000-27560	93	17
165000-27590	28	42
165000-27600	71	5
165000-27610	68	2
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